VHF FM TRANSCEIVER

TK-760HG/762HG

SERVICE MANUAL

SUPPLEMENT

KENWOOD

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This service manual mainly covers TK-760HG K, M and TK-762HG K. If information you require is missing from this service manual. Please refer to the B51-8497-10 service manual.

TK-760HG (K)



TK-762HG (K)



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OPERATING FEATURES

Emergency

Pressing this key for longer than 1 second causes the transceiver to enter the emergency mode. The transceiver jumps to the programmed "Emergency the group and channel" and transmits for 25 seconds.

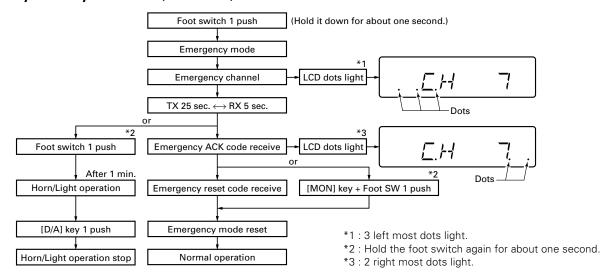
The transceiver disables mic mute while transmitting. After finishing transmission, the transceiver receivers for 5 seconds. The transceiver mutes the speaker while receiving. Following the above sequence, the transceiver continues to transmit and receive.

Radio Password (TK-760HG only)

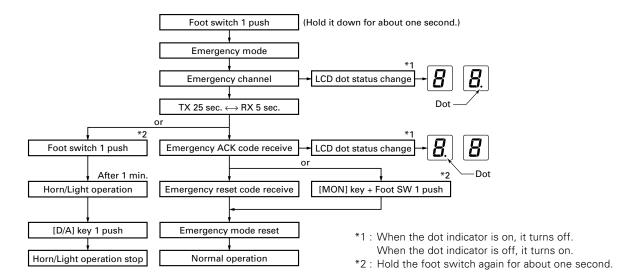
When the password is set in the transceiver, user can not use the transceiver unless enter the correct password.

This code can be up to 6 digits from 0 to 9 and input with the key, and "SCN" key.

■ Emergency mode system chart (TK-760HG)



■ Emergency mode system chart (TK-762HG)



REALIGNMENT

Clone Mode

Programming data can be transferred from one radio to another by connecting them via their modular microphone jacks. The operation is as follows (the transmit radio is the master and the receive radio is the slave).

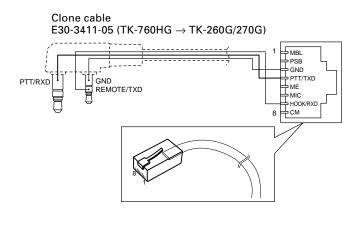
- 1. Turn the master TK-760HG power ON with the [▼] key held down. If the password is set to the TK-760HG, the TK-760HG displays "CLN LOCK". If the password is not set, the TK-760HG displays "CLONE".
- 2. When "CLN LOCK" is displayed, only the [CH▲/▶] key and [SCN], and [0] to [9] keys can be accepted. When you enter the correct password, and "CLONE" is displayed, the TK-760HG can be used as the cloning master. The following describes how to enter the password.
- 3. How to enter the password with the microphone keypad; If you press a key while "CLN LOCK" is displayed, the number that was pressed is displayed on the TK-760HG. Each press of the key shifts the display in order to the left. When you enter the password and press the [SCN] key, "CLONE" is displayed if the entered password is correct. If the password is incorrect, "CLN LOCK" is redisplayed.

How to enter the password with the [CH \(/ \sim \)] key; If the [CH \(/ \sim) \) key is pressed while "CLN LOCK" is displayed, numbers (0 to 9) are displayed flashing. When you press the [SCN] key, the currectly selected number is determined, and the display shifts to the left. If you press the [SCN] key after entering the password in this procedure, "CLONE" is displayed if the entered password is correct. If the password is incorrect, "CLN LOCK" is redisplayed.

- 4. Power on the slave TK-760HG/762HG.
- 5. Connect the cloning cable (No. E30-3382-05) to the modular microphone jacks on the master and slave.
- 6. Press the [SCN] key on the master while the master displays "CLONE". The data of the master is sent to the slave. While the slave is receiving the data, "-PC-" is displayed. When cloning of data is completed, the master displays "END", and the slave automatically operates in the User mode. The slave can then be operated by the same program as the master.
- 7. The other slave can be continuously cloned. When the [SCN] key on the master is pressed while the master displays "END", the master displays "CLONE". Carry out the operation in step 4 to 6.

Note:

You can clone the programmed data between the transceiver frequency version must be same.



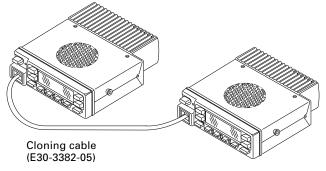


Fig. 1

INSTALLATION

Ignition Sense Cable (KCT-18: Option)

The KCT-18 is an optional cable for enabling the ignition function. The ignition function lets you turn the power to the transceiver on and off with the car ignition key.

If you use the Horn Alert function or the Manual Relay function, you can turn the function off while driving with the ignition key.

■ Connecting the KCT-18 to the Transceiver

- 1. Install the KCT-19 in the transceiver.
- 2. Insert the KCT-18 lead terminal (2) into pin 3 of the square plug (1) supplied with the KCT-19, then insert the square plug into the KCT-19 connector (3).

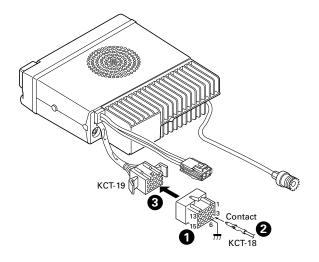


Fig. 1

■ Modifying the Transceiver

Modify the transceiver as follows to turn the power or the Horn Alert or Manual Relay function on and off with the ignition key.

- 1. Remove the lower half of the transceiver case.
- 2. Set jumper resistors (0 Ω) R134 and R135 of the TX-RX unit (A/2) as shown in Table 1.

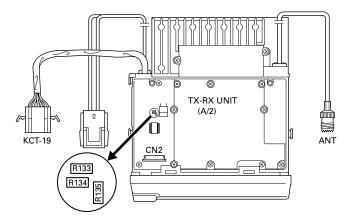


Fig. 2

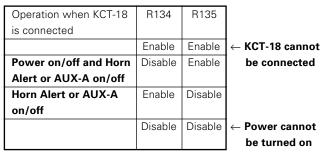


Table 1 R134 and R135 setup chart

PA/HA Unit (KAP-1: Option)

■ Installing the KAP-1 in the Transceiver

The Horn Alert (max. 2A drive) and Public Address functions are enabled by inserting the KAP-1 W1 (3P; white/black/red) into CN3 on the TX-RX unit, inserting W2 (3P; green) into CN7 on the TX-RX unit, and connecting the KCT-19 (option) to CN2 and CN3 of the KAP-1.

Installation procedure

- 1. Open the upper case of the transceiver.
- 2. Insert the two cables (1) with connectors from the KAP-1 switch unit into the connectors on the transceiver.
- Secure the switch unit board to the chassis with a screw

 (3). The notch (2) in the board must be placed at the front left side.
- 4. Attach the cushion on the top of the KAP-1 switch unit.

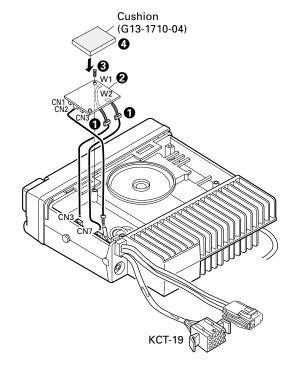


Fig. 3

INSTALLATION

■ Modifying the Transceiver

· Horn alert

The signal from pin 4 of IC9 on the TX-RX unit turns Q5 and Q1 on and off and drives KAP-1 HA relay K2 to drive the horn with a maximum of 2A.

The default output is HR1. The relay open output can be obtained between HR1 and HR2 by removing R1 in the KAP-1.

	R1	Output form
HR1 (Default)	Enable	O HR1
HR2	Disable	O HR1

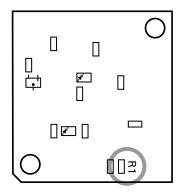


Fig. 4 KAP-1 foil side view

Public address

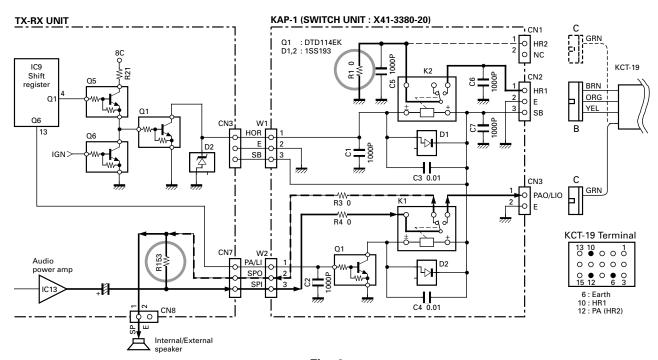
The signal from pin 13 of IC9 on the TX-RX unit drives PA relay K1 in the KAP-1 and switches the audio power amplifier output between the external PA system (through KCT-19) and internal and external speakers.

To use the PA function, R153 on the TX-RX unit must be removed.

	R153
Use the PA function D	isable
Do not use the PA function E	nable
TX-RX L (A/2) CN2 CN2 Fig. 5	INIT

■ Others

If the PA and HR2 are not necessary and the speaker output is output to an external unit through the KCT-19, connect the KCT-19 C connector to CN8 on the TX-RX unit.



INSTALLATION

Emergency Mode

■ Transceiver Modification Procedure

· Install the foot switch

Install the foot switch through the KCT-19 and KCT-18. When the switch is treaded on, the radio enters the emergency mode.

· Change the power switch circuit

TX-RX unit (B/2) : Control section \$R705 : Attach (R92-1252-05, 0 Ω)

TX-RX unit (A/2): RF section

R142 : Remove (RK73GB1J473J, 47k Ω)

Once the transceiver is modified, it cannot be turned on and off with the power switch. The power switch turns the LCD backlight and display on and off. (The power is switched on and off by IGNITION SENSE.)

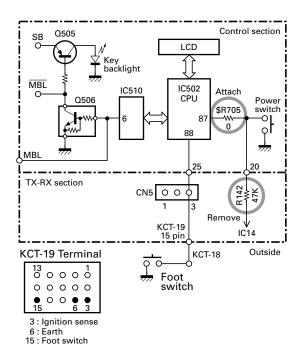
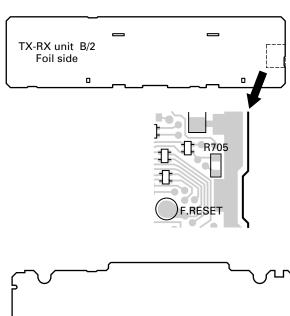


Fig. 7



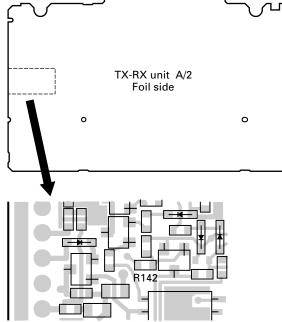


Fig. 8

PARTS LIST

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

TK-760HG/762HG

DISPLAY UNIT (X54-3270-10): TK-760HG, DISPLAY UNIT (X54-3280-10): TK-762HG

L : Scandinavia
I
Y: PX (Far East, Hawaii)

K: USA **T**: England P : Canada E : Europe

Y: AAFES (Europe) X: Au

X: Australia M: C

M: Other Areas

Ref. No.		New		Description	Desti-	Ref. No.	Address	New	Parts No.	Dogovintion	Desti-
Ket. No.	Address	parts	Parts No.	Description	nation			parts		Description	nation
			TK-760H	G/762HG			DISP	LA'	Y UNIT (X54-	3270-10) : TK-760HG	
1	1B,1E		A01-2165-13	CABINET UPPER		D802-805			B30-2220-05	LED (2P/YELLOW)	
2	2A,2D		A01-2166-13	CABINET LOWER							
3	2A		A62-0642-03	PANEL ASSY	760	C801-803			CC73GCH1H101J	CHIP C 100PF J	
3	2D		A62-0731-03	PANEL ASSY	762	C804			CK73GF1A105Z	CHIP C 1.0UF Z	
						C805			CK73GB1H102K	CHIP C 1000PF K	
5	1G		B09-0235-05	CAP		C806,807			CK73GB1H471K	CHIP C 470PF K	
6	2B		B11-1226-03	ILLUMINATION GUIDE	760						
6	2E		B11-1230-03	ILLUMINATION GUIDE	762	CN801			E40-6020-05	PIN ASSY	
7	2A		B38-0824-05	LCD	760						
7	2E		B38-0825-05	LCD	762	L801			L92-0138-05	FERRITE CHIP	
8	2G		B62-1257-20	INSTRUCTION MANUAL	м	R801-803			RK73GB1J103J	CHIP R 10K J 1/16W	
8	2G	*	B62-1258-20	INSTRUCTION MANUAL	κ Ι	R804			RK73GB1J473J	CHIP R 47K J 1/16W	
9	1C		B72-1816-04	MODEL NAME PLATE	760K	R805			RK73GB1J474J	CHIP R 470K J 1/16W	
9	1C		B72-1817-04	MODEL NAME PLATE	760M	R806			R92-1252-05	CHIP R 0 OHM	
9	1F		B72-1818-04	MODEL NAME PLATE	762	R808			RK73GB1J392J	CHIP R 3.9K J 1/16W	
· ·			572 1010 01	WODEL WINE FEATE	702	11000			11100020	S.S.K 5 1,71611	
11	2B		E29-1179-04	INTER CONNECTOR	760	R809			RK73FB2A270J	CHIP R 27 J 1/10W	
11	2E		E29-1183-04	INTER CONNECTOR	762						
12	1C		E30-2145-15	ANTENNA CABLE		D801			MA2S111	DIODE	
13	1G		E30-3339-05	DC CORD ACC		D808			HSB123	DIODE	
14	1C,1F		E30-3340-05	DC CORD RADIO		IC801			LC75823W	IC (LCD DRIVER)	
						Q801			2SB1132(Q,R)	TRANSISTOR	
-	-		E30-3404-05	EXTENSION CABLE				<u> </u>			
16	1C,1F		E37-0790-25	LEAD WIRE WITH CONNECTOR (SP)			DISP	LA'	Y UNIT (X54-	·3280-10) : TK-762HG	
17	2B,2E		E37-0815-05	FLAT CABLE		D801			B30-2204-05	LED (RED/YELLOW)	
19	1G		F51-0017-05	FUSE (6*30)		D803 D804			B30-2220-05 B30-2204-05	LED (2P/YELLOW) LED (RED/YELLOW)	
21	1C,1F		G02-0791-04	FLAT SPRING AF, APC		10001			500 2201 00	LED (HEB) TELES VV)	
22	1B,1E		G10-1221-04	FIBROUS SHEET SIDE		C801			CK73GB1H471K	CHIP C 470PF K	
23	1B,1E		G10-1222-14	FIBROUS SHEET UP, DOWN		C802-804			CC73GCH1H101J	CHIP C 100PF J	
24	1A,1D		G10-1223-14	FIBROUS SHEET SHIELD		C805			CK73GF1A105Z	CHIP C 1.0UF Z	
25	1C,1F		G13-1468-04	CUSHION DC CORD		C806			CK73GB1H471K	CHIP C 470PF K	
20	10,11		010 1100 01	200112		C807			CK73GB1H102K	CHIP C 1000PF K	
26	1B,1E		G13-1759-04	CUSHION SP							
27	2C,2F		G53-0796-04	PACKING PHONE JACK		C808			CK73GB1H471K	CHIP C 470PF K	
28	2E		G53-0889-04	PACKING DISPLAY UNIT	762	C812			CK73GB1H471K	CHIP C 470PF K	
30	3G		H10-6628-02	POLYSTYRENE FOAMED FIXTURE (F)		CN801			E40-6020-05	PIN ASSY	
31	2H		H10-6629-02	POLYSTYRENE FOAMED FIXTURE (R)		011001			2 10 0020 00	11171661	
32	1G		H12-1391-03	INNER PACKING CASE		L801			L92-0138-05	FERRITE CHIP	
33	1H,2H		H25-0720-04	PROTECTION BAG (200X350)		1001			L32 0130 03	TEITHTE OITH	
34	3H		H52-1653-02	ITEM CARTON CASE		R801,802			RK73GB1J103J	CHIP R 10K J 1/16W	
01	011		1102 1000 02	THEIVE OF WITCH OF ICE		R803			RK73FB2A123J	CHIP R 12K J 1/10W	
36	2G		J19-1584-05	HOLDER ACC		R804			RK73GB1J103J	CHIP R 10K J 1/16W	
37	2A,2D		J21-8382-03	HARDWARE FIXTURE		R805			RK73FB2A332J	CHIP R 3.3K J 1/10W	
38	1G		J29-0627-23	BRACKET		R806			RK73GB1J474J	CHIP R 470K J 1/16W	
50	10		023 0027 23	BIINOREI		11000			111(730)104740	70K 0 1/10W	
40	2A		K29-5343-02	KEY TOP	760	R807			R92-1252-05	CHIP R 0 OHM	
40	2D		K29-5344-02	KEY TOP	762	R808			RK73GB1J393J	CHIP R 39K J 1/16W	
						R809			RK73FB2A123J	CHIP R 12K J 1/10W	
Α	2A,2D		N33-2606-45	OVAL HEAD MACHINE SCREW		R810			RK73FB2A332J	CHIP R 3.3K J 1/10W	
В	2C,2F		N67-3008-46	PAN HEAD SEMS SCREW W		R812			RK73FB2A561J	CHIP R 560 J 1/10W	
C	2B,2E		N87-2606-46	BRAZIER HEAD TAPTITE SCREW							
D	2B,2E		N87-2612-46	BRAZIER HEAD TAPTITE SCREW		R813-816			RK73GB1J473J	CHIP R 47K J 1/16W	
42	2G		N99-0395-05	SCREW SET							
				0054450		D802			MA2S111	DIODE	
44	1B,1E		T07-0368-05	SPEAKER		IC801			LC75833W	IC (LCD DRIVER)	
45	1G		T91-0597-25	MICROPHONE	K	Q801-803			DTA114EKA	DIGITAL TRANSISTOR	
						Q804			KRA225S	DIGITAL TRANSISTOR	
						Q805			DTA114EKA	DIGITAL TRANSISTOR	
						Q806-809			2SK1824	FET	

PARTS LIST

TX-RX UNIT (X57-5950-XX)

Ref. No.	Address	New	Parts No.	Description Desti- nation				Ref. No.	Ref. No. Address New parts Parts No.			TX-RX UNIT (X57-5950 Description Description			
1101.110.	Auuross	parts					nation		Auuross	parts		0.00	•		nation
			X-RX UNIT					C98 C99			CK73GB1H103K C92-0004-05	CHIP C CHIP-TAN	0.010UF 1.0UF	K 16WV	
	-	14	: TK-760HG	-15 : T	K-762l	1G		C100			CK73GB1H102K	CHIP-TAIN	1.00F 1000PF	K	
D509-514			B30-2050-05	LFD				C101			CC73GCH1H040C	CHIP C	4.0PF	C	
D521			B30-2151-05	LED (RED/GR	EEN)			C102,103			CK73GB1H102K	CHIP C	1000PF	K	
					,										
C1-11			CK73GB1H102K	CHIP C	1000PF	K		C104			C92-0002-05	CHIP-TAN	0.22UF	35WV	
C13-19			CK73GB1H102K	CHIP C	1000PF	K		C105			CK73GB1H102K	CHIP C	1000PF	K	
C20			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C106			CC73GCH1H180J	CHIP C	18PF	J	
C21			CK73GB1H102K	CHIP C	1000PF	K		C107			CK73GB1H102K	CHIP C	1000PF	K	
C22			CK73GB1C104K	CHIP C	0.10UF	K		C110			CC73GCH1H180J	CHIP C	18PF	J	
C23,24			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C111			CC73GCH1H040C	CHIP C	4.0PF	С	
C26			CK73GB1H102K	CHIP C	1000PF	K	1	C112			CK73GB1H102K	CHIP C	1000PF	K	
C29			C92-0507-05	CHIP-TAN	4.7UF	6.3WV	1	C113			C92-0507-05	CHIP-TAN	4.7UF	6.3WV	
C30			CC73GCH1H050C	CHIP C	5.0PF	С		C114			C92-0697-05	CHIP-TAN	3.3UF	16WV	
C31			CK73GB1H102K	CHIP C	1000PF	K		C115			CK73GB1H102K	CHIP C	1000PF	K	
								l							
C32			C92-0662-05	CHIP-TAN	15UF	6.3WV		C116			CK73GB1H103K	CHIP C	0.010UF	K	
C33			CC73GCH1H220J	CHIP C	22PF	J		C117			CK73GB1H102K	CHIP C	1000PF	K	
C35			CK73GB1C104K	CHIP C	0.10UF	K		C118			CC73GCH1H100D	CHIP C	10PF	D	
C36			CK73GB1H102K	CHIP C	1000PF	K		C119		1	CK73GB1H103K	CHIP C	0.010UF	K	1
C37			CK73FB1C334K	CHIP C	0.33UF	K		C120			CC73GCH1H220J	CHIP C	22PF	J	
040.41			CV70CD411400V	CLUD C	0.010115			0101			01/70004114001/	CLUD C	100005	V	
C40,41			CK73GB1H103K	CHIP C	0.010UF	K	1	C121			CK73GB1H102K	CHIP C	1000PF	K	
C43			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C122,123			CK73GB1C104K	CHIP C	0.10UF	K	
C44			CK73GB1H331K	CHIP C	330PF	K		C124			CC73GCH1H101J	CHIP C	100PF	J	
C45			CK73GB1H102K	CHIP C	1000PF	K		C125			C92-0004-05	CHIP-TAN	1.0UF	16WV	
C46			CK73GB1H103K	CHIP C	0.010UF	K		C126			CC73GCH1H180J	CHIP C	18PF	J	
C47			CO2 0EC1 0E	CLUD ELE	22115	16WV		C127			CV72CD111102V	CLUD C	0.010115	V	
C47			C92-0561-05	CHIP-ELE	22UF	-	1	C127			CK73GB1H103K	CHIP C	0.010UF	K	
C49			CK73GB1H102K	CHIP C	1000PF	K	1	C128			C92-0543-05	CHIP-TAN	3.3UF	10WV	
C50			CC73GCH1H220J	CHIP C	22PF	J		C129			CK73FF1C105Z	CHIP C	1.0UF	Z	
C51			CK73GB1C104K	CHIP C	0.10UF	K	1	C130			CK73GB1H103K	CHIP C	0.010UF	K	
C52			CC73GCH1H680J	CHIP C	68PF	J		C131-133			CK73GB1H102K	CHIP C	1000PF	K	
C53			CK73GB1C104K	CHIP C	0.10UF	K		C134			CK73FB1E104K	CHIP C	0.10UF	K	
				1			1	1				CHIP C			1
C54			CK73GB1H103K	CHIP C	0.010UF	K	1	C135			CC73GCH1H090D		9.0PF	D	
C56			CC73GCH1H220J	CHIP C	22PF	J	1	C136			CK73GB1C104K	CHIP C	0.10UF	K	
C58			CK73GB1E223K	CHIP C	0.022UF	K	1	C137			CC73GCH1H101J	CHIP C	100PF	J	
C60,61			CK73GB1H102K	CHIP C	1000PF	K		C138			CK73FB1E104K	CHIP C	0.10UF	K	
C62			CC73GCH1H101J	CHIP C	100PF	J		C139			CK73GB1H102K	CHIP C	1000PF	K	
C63				1		K		C139				ELECTRO		25WV	
			CK73GB1C104K	CHIP C	0.10UF			1 '			C92-0719-05		47UF		
C64			CK73GB1H103K	CHIP C	0.010UF	K		C142-144			CK73GB1H102K	CHIP C	1000PF	K	
C66,67			CK73GB1H102K	CHIP C	1000PF	K		C146-149			CK73GB1H102K	CHIP C	1000PF	K	
C69			CK73GB1E223K	CHIP C	0.022UF	K		C150			CK73FF1C105Z	CHIP C	1.0UF	Z	
C70			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C151			CK73GB1H102K	CHIP C	1000PF	K	
C72			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C152			CC73GCH1H030C	CHIP C	3.0PF	C	
C74,75			CK73GB1H102K	CHIP C	4.70F 1000PF	K K		C152		1	CC73GCH1H330J	CHIP C	33PF	J	1
C74,75			C90-2046-05	ELECTRO	22UF	10WV		C153		1	CK73GB1H102K	CHIP C	1000PF	K	1
C78			CK73GB1H102K	CHIP C	1000PF	K		C154 C155			CC73GCH1H220J	CHIP C	22PF	J	
0/0			OK/JUDITIUZK	011111 0	TOUUFF	1/		0133			00/300111112203	01111 0	4411	J	
C79,80			CK73GB1H221K	CHIP C	220PF	K		C156,157			CK73GB1H102K	CHIP C	1000PF	K	
C81			CK73GB1H102K	CHIP C	1000PF	K		C158			CC73GCH1H270J	CHIP C	27PF	J	
C82			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C150		1	CC73GCH1H180J	CHIP C	18PF	J	
C83			CC73GCH1H270J	CHIP C	4.701 27PF	J.3VVV		C160,161		1	C92-0719-05	ELECTRO	47UF	25WV	1
C84			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C160,101			CK73GB1H102K	CHIP C	1000PF	K	
C86			C92-0662-05	CHIP-TAN	15UF	6.3WV		C163			CC73GCH1H010B	CHIP C	1.0PF	В	
C87			CC73GCH1H330J	CHIP C	33PF	J		C164		1	CK73GB1H102K	CHIP C	1000PF	K	
C88			CK73GB1H103K	CHIP C	0.010UF	K		C165			C92-0719-05	ELECTRO	47UF	25WV	
C91			CC73GCH1H050C	CHIP C	5.0PF	С		C166			CE04EW1E471M	ELECTRO	470UF	25WV	
C92			CK73GB1H102K	CHIP C	1000PF	K		C167			CC73GCH1H150J	CHIP C	15PF	J	
C93			C92-0555-05	CHIP-TAN	0.047UF	35WV		C168-170			CK73GB1H102K	CHIP C	1000PF	K	
C94			CK73GB1H102K	CHIP C	1000PF	K		C171		1	CC73GCH1H020B	CHIP C	2.0PF	В	
C95			CC73GCH1H020B	CHIP C	2.0PF	В		C172			CE04EW1E471M	ELECTRO	470UF	25WV	
C96			CK73GB1H102K	CHIP C	1000PF	K		C173			CK73GB1C104K	CHIP C	0.10UF	K	
C97			C92-0546-05	CHIP-TAN	68UF	6.3WV		C174		1	CK73GB1H102K	CHIP C	1000PF	K	1
								L		1		1			

PARTS LIST

TX-RX UNIT (X57-5950-XX)

TX-RX UN	IIT (X57	7-595	60-XX)												
Ref. No.	Address	New parts	Parts No.		Descripti	on	Desti- nation	Ref. No.	Address	New parts	Parts No.		Descripti	on	Desti- nation
C175			CC73GCH1H080D	CHIP C	8.0PF	D		C522			C92-0507-05	CHIP-TAN	4.7UF	6.3WV	
C177			CK73GB1H102K	CHIP C	1000PF	K		C523			CC73GCH1H221J	CHIP C	220PF	J	
C179			CK73GB1H102K	CHIP C	1000PF	K		C524			CK73GB1H103K	CHIP C	0.010UF	K	
C180			CK73GB1H103K	CHIP C	0.010UF	K		C525			CK73GB1E123K	CHIP C	0.012UF	K	
C181			CC73FCH1H270J	CHIP C	27PF	J		C526			CK73GB1C683K	CHIP C	0.068UF	K	
C183			CK73GB1H102K	CHIP C	1000PF	K		C527			CK73GB1H222K	CHIP C	2200PF	K	
C185			CK73GB1C104K	CHIP C	0.10UF	K		C528			CK73GB1H103K	CHIP C	0.010UF	K	
C186,187			CK73GB1H102K	CHIP C	1000PF	K		C529			CK73GB1H272K	CHIP C	2700PF	K	
C189,190			CK73GB1H102K	CHIP C	1000PF	K		C530			CK73GB1H152K	CHIP C	1500PF	K	
C192			CK73GB1H102K	CHIP C	1000PF	K		C531			CK73GB1H272K	CHIP C	2700PF	K	
C194			CK73GB1C104K	CHIP C	0.10UF	K		C532,533			CK73GB1C104K	CHIP C	0.10UF	K	
C195			C92-0719-05	ELECTRO	47UF	25WV		C534,535			CK73GB1H103K	CHIP C	0.010UF	K	
C196			CK73GB1H102K	CHIP C	1000PF	K		C536,537			CK73GB1C104K	CHIP C	0.10UF	K	
C198			CK73GB1H102K	CHIP C	1000PF	K		C538			C92-0566-05	CHIP-TAN	10UF	6.3WV	
C200			CK73GB1H102K	CHIP C	1000PF	K		C539			CK73GB1H103K	CHIP C	0.010UF	K	
C201			CK73GB1C104K	CHIP C	0.10UF	K		C540,541			CK73GB1C104K	CHIP C	0.10UF	K	
C203			CK73GB1H102K	CHIP C	1000PF	K		C542			CC73GCH1H331J	CHIP C	330PF	J	
C204			C92-0004-05	CHIP-TAN	1.0UF	16WV		C543			CK73GB1H102K	CHIP C	1000PF	K	
C205			C93-0560-05	CHIP C	10PF	D		C544-546			CK73GB1H562K	CHIP C	5600PF	K	
C207			CK73GB1H103K	CHIP C	0.010UF	K		C547			CC73GCH1H030C	CHIP C	3.0PF	C	
C208			CC73FCH1H030C	CHIP C	3.0PF	С		C548-550			CK73GB1H272K	CHIP C	2700PF	K	
C209			C93-0561-05	CHIP C	12PF	J		C551			CC73GCH1H151J	CHIP C	150PF	J	
C203			CK73GB1H103K	CHIP C	0.010UF	K		C552			CC73GCH1H030C	CHIP C	3.0PF	C	
			C93-0564-05	CHIP C	22PF	J		C552			CK73GB1H102K	CHIP C		K	
C211 C212			CK73GB1H102K	CHIP C	1000PF	K		C554			CK73GB1H102K CK73GB1H122K	CHIP C	1000PF 1200PF	K	
0010			000 0E00 0E	CLUD C	1005			OFFE			000 0500 05	CUID TAN	10115	0.0\\\\	
C213			C93-0563-05	CHIP C	18PF	J		C555			C92-0566-05	CHIP-TAN	10UF	6.3WV	
C214			C93-0603-05	CHIP C	1000PF	K		C556			CK73GB1C333K	CHIP C	0.033UF	K	
C215			C93-0560-05	CHIP C	10PF	D		C557			CK73GB1C104K	CHIP C	0.10UF	K	
C216 C217			CC73GCH1H0R5B CC73GCH1H010B	CHIP C CHIP C	0.5PF 1.0PF	B B		C558 C559			CC73GCH1H101J CK73GB1H102K	CHIP C CHIP C	100PF 1000PF	J K	
				OLUB O	0.40115	14		0500 500			01/7000404041/	OLUD O		V	
C218			CK73GB1C104K	CHIP C	0.10UF	K		C560-563			CK73GB1C104K	CHIP C	0.10UF	K	
C219			C93-0563-05	CHIP C	18PF	J		C564			C92-0507-05	CHIP-TAN	4.7UF	6.3WV	
C220			CK73GB1H102K	CHIP C	1000PF	K		C565,566			CK73GB1H472K	CHIP C	4700PF	K	
C221 C222			C93-0562-05 CC73GCH1H0R5B	CHIP C	15PF 0.5PF	J B		C567 C568			CC73GCH1H101J C92-0507-05	CHIP C CHIP-TAN	100PF 4.7UF	J 6.3WV	
C223			CC73GCH1H020B	CHIP C	2.0PF	В		C569			CK73GB1E223K	CHIP C	0.022UF	K	
C224			CK73GB1H102K	CHIP C	1000PF	K		C570			CK73FF1C105Z	CHIP C	1.0UF	Z	
C230,231			CK73GB1C104K	CHIP C	0.10UF	K		C571,572			CK73GB1H102K	CHIP C	1000PF	K	
C241			CM73F2H040D	CHIP C	4.0PF	D		C573			CK73FB1H563K	CHIP C	0.056UF	K	
C248			C92-0585-05	CHIP-TAN	4.7UF	16WV		C574			CC73GCH1H470J	CHIP C	47PF	J	
C259			CK73GB1C104K	CHIP C	0.10UF	K		C575			CK73GB1H102K	CHIP C	1000PF	K	
C270			CK73GB1C104K	CHIP C	0.10UF	K		C576		1	CK73GB1C104K	CHIP C	0.10UF	K	
C271			CK73GB1H472K	CHIP C	4700PF	K		C577,578			CK73GB1H103K	CHIP C	0.010UF	K	1
C274			CK73GB1C104K	CHIP C	0.10UF	K		C579			CC73GCH1H101J	CHIP C	100PF	J	
C501			CK73GB1H102K	CHIP C	1000PF	K		C580			CK73GB1C104K	CHIP C	0.10UF	K	
C502			CK73GB1C104K	CHIP C	0.10UF	K		C581			CK73GB1H102K	CHIP C	1000PF	K	
C503			CK73GB1H471K	CHIP C	470PF	K		C582		1	CK73GB1C473K	CHIP C	0.047UF	K	
C504			CK73GB1H103K	CHIP C	0.010UF	K		C583		1	C92-0566-05	CHIP-TAN	10UF	6.3WV	
C505			CK73GB1C104K	CHIP C	0.10UF	K		C584		1	CK73GB1H103K	CHIP C	0.010UF	K	
C506,507			CK73GB1H103K	CHIP C	0.010UF	K		C585			CC73GCH1H101J	CHIP C	100PF	J	
C508			CK73GB1H472K	CHIP C	4700PF	K		C587			CK73GB1H103K	CHIP C	0.010UF	K	
C509			C92-0507-05	CHIP-TAN	4.7UF	6.3WV		C589			C92-0606-05	CHIP-TAN	4.7UF	10WV	1
C514			CC73GCH1H680J	CHIP C	68PF	J		C590			CK73GB1H102K	CHIP C	1000PF	K	1
C515			CK73GB1H103K	CHIP C	0.010UF			C594			CK73GB1H102K	CHIP C	1000PF	K	1
C516			CC73GCH1H270J	CHIP C	27PF	J		C596			CK73GB1H102K	CHIP C	1000PF	K	
C517			CK73GB1C683K	CHIP C	0.068UF	K		C597			CC73GCH1H101J	CHIP C	100PF	J	
C518			CC73GCH1H270J	CHIP C	27PF	J		C598		1	CK73GB1H102K	CHIP C	1000PF	K	
C519			CK73GB1H102K	CHIP C	1000PF	K		C599		1	CC73GCH1H101J	CHIP C	1000F	J	
C520			CK73GB111102K	CHIP C	0.10UF	K		C600		1	CK73GB1H102K	CHIP C	1000PF	K	
C521			CK73GB1C104K	CHIP C	1000PF	K		C601,602		1	CC73GCH1H101J	CHIP C	1000F	J	
UUL 1	1	1	OKTOOD IIIIOZK	01111 0	100011	IX.		0001,002	1		50750011111010	01 111 0	10011	U	1

PARTS LIST

TX-RX UNIT (X57-5950-XX)

Ref. No.	Address	New	Parts No.	Description	Desti-	Ref. No.	Address	New	Parts No.		Descripti	X UNIT (X57	Desti-
	Auuress	parts			nation	.	Auuress	parts			•	VII	nation
C603			CK73GB1H102K	CHIP C 1000PF K	1	L503,504			L92-0138-05	FERRITE C			
C604-606			CC73GCH1H101J	CHIP C 100PF J		L510			L92-0138-05	FERRITE C			
C608-610	1		CC73GCH1H101J	CHIP C 100PF J	1	X1			L77-1826-05	TCXO (16.			
C611,612	1		CK73GB1H471K	CHIP C 470PF K	1	X501			L77-1708-05	1		3.579545MHZ)	
C613			CC73GCH1H101J	CHIP C 100PF J		X502			L78-0462-05	RESONAT	OR (9.8304M/	8*2.5)	
C615			CK73GB1H471K	CHIP C 470PF K		XF1			L71-0551-15	MCF (49.9	5MHZ/5.0K)		
C616			CC73GCH1H101J	CHIP C 100PF J									
C618			CK73GB1H102K	CHIP C 1000PF K		CP501-505			R90-0741-05	MULTIPLE	RESISTOR		
C620			CK73GB1H471K	CHIP C 470PF K		CP508-514			R90-0741-05	MULTIPLE	RESISTOR		
C621			CK73GB1H102K	CHIP C 1000PF K		CP516-524			R90-0741-05	MULTIPLE	RESISTOR		
						CP526,527			R90-0741-05	MULTIPLE	RESISTOR		
C623			CK73GB1H102K	CHIP C 1000PF K		CP529-536			R90-0741-05	MULTIPLE	RESISTOR		
C626			CK73GB1C104K	CHIP C 0.10UF K									
C628			CK73GB1C104K	CHIP C 0.10UF K		CP538			R90-0741-05	MUI TIPI F	RESISTOR		
C629			CC73GCH1H470J	CHIP C 47PF J		CP539			R90-0724-05	MULTI-CO		1K X4	
C630			C92-0507-05	CHIP-TAN 4.7UF 6.3WV		R1			R92-1252-05	CHIP R	0 OHM	IKAI	
0000			032 0307 03			R2			RK73GB1J102J	CHIP R	1.0K J	1/16W	
C631			CK73GB1H103K	CHIP C 0.010UF K		R3			R92-1252-05	CHIP R	0 OHM	1/1000	
			CK73FF1C105Z			no			N9Z-1Z3Z-03	CHIF N	U UNIVI		
C632				CHIP C 1.0UF Z		D/			ו מפרו במרכדעם	CHIED	221/	1/16//	
C633			CK73GB1C104K	CHIP C 0.10UF K	ļ	R4			RK73GB1J333J	CHIP R	33K J	1/16W	
C720			C92-0566-05	CHIP-TAN 10UF 6.3WV	1	R6			R92-1252-05	CHIP R	0 OHM	1 /4 0\4/	
0114			E40.0047.67	DIN 400V		R7,8			RK73GB1J102J	CHIP R	1.0K J	1/16W	
CN1			E40-6047-05	PIN ASSY		R9,10			R92-1252-05	CHIP R	0 OHM		
CN2			E40-6021-05	FLAT CABLE CONNECTOR		R11			RK73GB1J102J	CHIP R	1.0K J	1/16W	
CN3			E40-3247-05	PIN ASSY	1	L .				L			
CN4			E40-5737-05	PIN ASSY		R12			RK73GB1J104J	CHIP R	100K J	1/16W	
CN5			E40-5738-05	PIN ASSY		R13			RK73GB1J473J	CHIP R	47K J	1/16W	
						R14			RK73GB1J474J	CHIP R	470K J	1/16W	
CN7			E40-3247-05	PIN ASSY		R15			RK73GB1J104J	CHIP R	100K J	1/16W	
CN8			E40-3246-05	PIN ASSY		R16			RK73GB1J220J	CHIP R	22 J	1/16W	
CN501			E40-6021-05	FLAT CABLE CONNECTOR		1							
J1			E11-0442-05	3.5D PHONE JACK (3P)		R17			RK73GB1J154J	CHIP R	150K J	1/16W	
J501			E08-0877-05	MODULAR JACK		R18			RK73GB1J104J	CHIP R	100K J	1/16W	
						R19			RK73GB1J392J	CHIP R	3.9K J	1/16W	
F1			F53-0108-05	FUSE		R20			RK73GB1J224J	CHIP R	220K J	1/16W	
			100 0100 00	1002		R21			RK73GB1J102J	CHIP R	1.0K J	1/16W	
-			J31-0543-05	COLLAR (LH-5-1.5)		1121			11107000101020	01111 11	1.010	1/10**	
						R22			RK73GB1J474J	CHIP R	470K J	1/16W	
CF1			L72-0959-05	CERAMIC FILTER		R23			RK73GB1J223J	CHIP R	22K J	1/16W	
CF2			L72-0973-05	CERAMIC FILTER		R24			RK73GB1J183J	CHIP R	18K J	1/16W	
L1			L40-1005-34	SMALL FIXED INDUCTOR (10UH/8)		R25,26			R92-1252-05	CHIP R	0 OHM	·	
L2-4			L40-3381-86	SMALL FIXED INDUCTOR (0.33U/160)		R29			R92-1252-05	CHIP R	0 OHM		
L5			L34-4530-05	COIL									
						R30			RK73GB1J103J	CHIP R	10K J	1/16W	
L6			L40-1581-86	SMALL FIXED INDUCTOR (0.15U/160)		R31			RK73GB1J152J	CHIP R	1.5K J	1/16W	
L7			L40-4785-85	SMALL FIXED INDUCTOR (0.47U/252)	1	R32			RK73GB1J103J	CHIP R	10K J	1/16W	
L8			L40-8285-85	SMALL FIXED INDUCTOR (0.82U/252)	1	R33			R92-1252-05	CHIP R	0 OHM		
L9			L40-1085-77	SMALL FIXED INDUCTOR (100NH/160)	1	R34			RK73GB1J104J	CHIP R	100K J	1/16W	
L10			L40-6875-77	SMALL FIXED INDUCTOR (68NH/1608)							,	•	
				,		R35			RK73GB1J224J	CHIP R	220K J	1/16W	
L11	1		L34-4472-05	COIL	1	R36			RK73GB1J223J	CHIP R	22K J	1/16W	
L12	1		L40-3375-34	SMALL FIXED INDUCTOR (33NH/8)	1	R37			RK73GB1J220J	CHIP R	22 J	1/16W	
L13			L34-4473-05	COIL		R38-40			RK73GB1J103J	CHIP R	10K J	1/16W	
L14			L40-6875-34	SMALL FIXED INDUCTOR (68NH/8)		R41			RK73GB1J224J	CHIP R	220K J	1/16W	
L15			L34-4473-05	COIL		I			000.022.10	!!		.,	
						R42			RK73GB1J473J	CHIP R	47K J	1/16W	
L17	1		L92-0179-05	FERRITE CHIP	1	R43			RK73GB1J683J	CHIP R	68K J	1/16W	
L18			L34-4472-05	COIL		R44			RK73GB1J153J	CHIP R	15K J	1/16W	
L20			L34-4481-05	AIR-CORE COIL		R46			RK73GB1J223J	CHIP R	22K J	1/16W	
L21			L34-4478-05	AIR-CORE COIL		R47			RK73GB1J101J	CHIP R	100 J	1/16W	
L22			L34-4480-05	AIR-CORE COIL							,		
						R48			RK73GB1J184J	CHIP R	180K J	1/16W	
L23	1	*	L34-4655-05	AIR-CORE COIL	1	R49			RK73GB1J152J	CHIP R	1.5K J	1/16W	
L24		"	L34-4481-05	AIR-CORE COIL		R50			RK73GB1J473J	CHIP R	47K J	1/16W	
L25			L34-4478-05	AIR-CORE COIL		R51-53			RK73GB1J102J	CHIP R	1.0K J	1/16W	
L26	1		L40-4775-77	SMALL FIXED INDUCTOR (47NH/1608)	1	R54			R92-1252-05	CHIP R	0 OHM	1, 10 **	
			L40-4775-77	SMALL FIXED INDUCTOR (0.15U/160)		1104			1102-1202-00		O OF HVI		
127		1	L+U-1001-00	OIVIALE IVED INDOCTOR (0.130/100)		1	1	1	1	1			
L27						DEE			DV72CD1 1104 I		1006	1/16\//	
			102 0170 OF	EERRITE CUID		R55			RK73GB1J104J	CHIP R	100K J	1/16W	
L27 L33,34 L501			L92-0179-05 L92-0138-05	FERRITE CHIP FERRITE CHIP		R55 R56 R57			RK73GB1J104J RK73GB1J101J RK73GB1J471J	CHIP R CHIP R CHIP R	100K J 100 J 470 J	1/16W 1/16W 1/16W	

PARTS LIST

TX-RX UNIT (X57-5950-XX)

	X-RX UN	IIT (X57	-595	0-XX)													
	Ref. No.			Parts No.		Descripti	on		Ref. No.	Address		Parts No.		Descri	ption		
	R58		•	RK73GB1.I332.I	CHIP B	3.3K .I	1/16W		R125		ľ	BK73GB1.I333.I	CHIP R	33K	.l 1.	/16W	
BRACEBILIZIAL CHEP																	
BIT																	
RECORDINATES CHIPPE 2006 J VINNV RISS RECORDINATES CHIPPE 156 J VINNV RISS RECORDINATES CHI																	
BC3681474																	
Beach Brossell 1922 Carl Per 22% J. 1/16W First	R62			RK73GB1J224J	CHIP R	220K J	1/16W		R129			RK73GB1J152J	CHIP R	1.5K	J 1,	/16W	
Beach Brossell 1922 Carl Per 22% J. 1/16W First	R63			RK73GR1 I474 I	CHIP B	470K I	1/16\//		R130			BK73GB1 103	CHIP B	10K	1 1	/16\/\/	
MCGSB11031 OHPR 10K																	
Big																	
															J 1,	/ IUVV	
Big																	
REAL PROJECT Column Colu	R67			RK73GB1J472J	CHIP R	4.7K J	1/16W		R137			RK73FB2A100J	CHIP R	10	J 1,	/10W	
	R68			RK73GB1J182J	CHIP R	1.8K J	1/16W		R138			RK73GB1J102J	CHIP R	1.0K	J 1,	/16W	
	R69			R92-1252-05	CHIP R	0 OHM			R139			RK73GB1J103J	CHIP R	10K	J 1	/16W	
	R70			RK73GB1J562J	CHIP B	5.6K J	1/16W		R140			RK73FB2A2R2J	CHIP R	2.2			
	R71																
RC73GB11/23							1/1000										
	11/2			1132-1232-03	GIIII II	U OI IIVI			11142			11K73GB134733	CIIII II	4/K	J I,	TOVV	
RRZGBBL1041	R73			RK73GB1J223J	CHIP R	22K J	1/16W		R144			R92-0685-05	CHIP R	22	J 1,	/2W	
RRZGBBL1041	R75			RK73GB1J471J	CHIP R	470 J	1/16W		R145,146			RK73GB1J473J	CHIP R	47K	J 1	/16W	
	R76																
RK73681J841	R77																
RICAGES LIBERT													1				
BB	11/0			111K/JUDIJ1U4J	OUIL U	IUUN J	1/ TOVV		11148			רווי אווי ו 1טט אווי ן 1טט אווי ן	OTHE N	4/	υ I,	1044	
BIT	R79			RK73GB1J681J	CHIP R	680 J	1/16W		R150			RK73GB1J104J	CHIP R	100K	J 1,	/16W	
BRZ-36B1, JEZ-J CHIP R	R80			RK73GB1J471J	CHIP R	470 J	1/16W		R151			RK73FB2A821J	CHIP R	820	J 1,	/10W	
BRZ-36B1, JEZ-J CHIP R	R81			RK73GB1J101J	CHIP R	100 J	1/16W		R152			R92-1252-05	CHIP R	0 OHM			
BRC30B1J884 CHIP R																	
BR	R83														J 1,	/16W	
BR	R95			RK73GR1 I272 I	CHIP B	27K I	1/16\\\/		R155			RK73FR2A5R6 I	CHIP B	5.6	I 1	/10\//	
BR																	
BBB RK73GB1J27TJ																	
RK736B1J102J													1				
190,91	R88			RK73GB1J271J								RK73FB2A821J	1				
R82-1252-05	R89			RK73GB1J102J	CHIP R	1.0K J	1/16W		R161			RK73GB1J334J	CHIP R	330K	J 1,	/16W	
RR736B1J152J	R90,91			RK73GB1J104J	CHIP R	100K J	1/16W		R162			RK73GB1J333J	CHIP R	33K	J 1,	/16W	
	R92			R92-1252-05	CHIP R	0 OHM			R163			R92-0670-05	CHIP R	0 OHM			
	R93			RK73GB1J152J	CHIP R	1.5K J	1/16W		R164			R92-1213-05	CHIP R	100	J 1	/2W	
RR736B1J103J	R94			R92-1252-05	CHIP R	0 OHM			R166			RK73GB1J221J	CHIP R	220	J 1	/16W	
1988 RK73GB1J223J CHIP R 22K J 1/16W R170 RK73GB1J223J CHIP R 270 J 1/16W R171 RK73GB1J53J CHIP R 15K J 1/16W R171 RK73GB1J53J CHIP R 15K J 1/16W R173 RK73GB1J53J CHIP R 15K J 1/16W R173 RK73GB1J332J CHIP R 33K J 1/16W R173 RK73GB1J332J CHIP R 33K J 1/16W R173 RK73GB1J332J CHIP R 3.3K J 1/16W R173 RK73GB1J332J CHIP R 3.3K J 1/16W R175 RK73GB1J332J CHIP R 10K J 1/16W R176 RK73GB1J63J CHIP R 10K J 1/16W R180 RK73GB1J63J CHIP R 33K J 1/16W R180 RK73GB1J63J CHIP R 33K J 1/16W R180 RK73GB1J62J CHIP R 3.3K J 1/16W R180 RK73GB1J62J CHIP R 1.0K J 1/16W R180 RK73GB1J102J CHIP R 1.0K J	R95						1/16W						1				
1988 RK73GB1J223J CHIP R 22K J 1/16W R170 RK73GB1J223J CHIP R 270 J 1/16W R171 RK73GB1J53J CHIP R 15K J 1/16W R171 RK73GB1J53J CHIP R 15K J 1/16W R173 RK73GB1J53J CHIP R 15K J 1/16W R173 RK73GB1J332J CHIP R 33K J 1/16W R173 RK73GB1J332J CHIP R 33K J 1/16W R173 RK73GB1J332J CHIP R 3.3K J 1/16W R173 RK73GB1J332J CHIP R 3.3K J 1/16W R175 RK73GB1J332J CHIP R 10K J 1/16W R176 RK73GB1J63J CHIP R 10K J 1/16W R180 RK73GB1J63J CHIP R 33K J 1/16W R180 RK73GB1J63J CHIP R 33K J 1/16W R180 RK73GB1J62J CHIP R 3.3K J 1/16W R180 RK73GB1J62J CHIP R 1.0K J 1/16W R180 RK73GB1J102J CHIP R 1.0K J	R97			RK73GB1.J473.J	CHIP B	47K .I	1/16W		R168 169			RK73GB1.I103.I	CHIP R	10K	.1 1.	/16W	
RK73GB1J271J	R98												1				
RK73GB1J101J																	
RK73GB1J472J																	
RK73GB1J470J																	
RK73GB1J222J	H103			KK/36B1J4/2J	CHIP R	4./K J	1/1bVV		H1/3			HK/3GB1J332J	CHIPK	3.3K	J 1,	/1600	
RK73GB1J222J	R105			RK73GB1J470J	CHIP R	47 J	1/16W		R174			RK73GB1J103J	CHIP R	10K	J 1.	/16W	
RK73GB1J473J	R106																
RK73GB1J181J CHIP R 180																	
RK73GB1J102J																	
RK73GB1J220J CHIP R 22 J 1/16W RK73GB1J330J CHIP R 33 J 1/16W RK73GB1J330J CHIP R 33 J 1/16W RK73GB1J330J CHIP R 33 J 1/16W RK73GB1J331 CHIP R 33 K J 1/16W RK73GB1J332J CHIP R 3.3 K J 1/16W RK73GB1J331 CHIP R 3.3 K J 1/16W R181 RK73GB1J362J CHIP R 5.6 K J 1/16W R182 RK73GB1J102J CHIP R 1.0 K J 1/16W R183 R92-0670-05 CHIP R 0.0 HM RK73GB1J472J CHIP R 4.7 K J 1/16W R183 R92-0670-05 CHIP R 0.0 HM RK73GB1J473J CHIP R 4.7 K J 1/16W R185 RK73GB1J473J CHIP R 4.7 K J 1/16W R186 R92-1252-05 CHIP R 0.0 HM RK73GB1J102J CHIP R 1.0 K J 1/16W R188 RK73GB1J102J CHIP R 1.0 K J 1/16W R189 RK73GB1J101J CHIP R 1.0 K J 1/16W R189 RK73GB1J101J CHIP R 1.0 K J 1/16W R189 RK73GB1J101J CHIP R 1.0 K J 1/16W R192 RK73GB1J101J CHIP R 1.0 K J 1/16W R192 RK73GB1J103J CHIP R 1.0 K J 1/16W R192 RK73GB1J103J CHIP R 1.0 K J 1/16W R192 RK73GB1J103J CHIP R 1.0 K J 1/16W R192 RK73GB1J102J CHIP R 1.0 K J 1/16W R192 RK73GB1J102J CHIP R 1.0 K J 1/16W R192 RK73GB1J102J CHIP R 1.0 K J 1/16W R193 RK73GB1J32J CHIP R 3.3 K J 1/16W R19									1								
RK73GB1J330J	H 109			MK/3GB1J1U2J	CHIP R	1.UK J	1/16W		H1/8			MK/3GB1J822J	CHIPK	8.2K	J 1,	/ I b V V	
RK73GB1J333J	R110				CHIP R	22 J	1/16W					RK73GB1J393J		39K	J 1,	/16W	
RK73GB1J181J	R111			RK73GB1J330J	CHIP R	33 J	1/16W		R180			RK73GB1J332J	CHIP R	3.3K	J 1,	/16W	
RK73GB1J181J	R112			RK73GB1J333J	CHIP R	33K J			R181			RK73GB1J562J	CHIP R	5.6K	J 1	/16W	
RK73GB1J472J CHIP R 4.7K J 1/16W RK73GB1J472J CHIP R 10K J 1/16W RK73GB1J473J CHIP R 4.7K J 1/16W RK73GB1J102J CHIP R 2.2K J 1/16W RK73GB1J102J CHIP R 1.0K J 1/16W RK73GB1J103J CHIP R 1.0K J 1/16W RK73GB1J103J CHIP R 10K J 1/16W RK73GB1J103J CHIP R 10K J 1/16W RR73GB1J103J CHIP R 1.0K J 1/16W	3113																
RK73GB1J473J	R114														,		
RK73GB1J473J	R115			RK73GB1.J103.J	CHIP R	10K .I	1/16W		R184			R92-1252-05	CHIP R	0 OHM			
RK73GB1J22J															.] 1	/16W/	
RK73GB1J102J															J 1/		
RK73GB1J103J															1 4	/16\//	
R92-1252-05	K118 R119												1				
RK73GB1J100J CHIP R 10 J 1/16W R92-1215-05 CHIP R 470 J 1/2W R193 RK73GB1J103J CHIP R 10K J 1/16W R193 RK73GB1J102J CHIP R 1.0K J 1/16W R193 RK73GB1J32J CHIP R 3.3K J 1/16W R196 RK73GB1J332J CHIP R 3.3K J 1/16W							.,										
R92-1215-05 CHIP R 470 J 1/2W R193 RK73GB1J102J CHIP R 1.0K J 1/16W R123 RK73GB1J472J CHIP R 4.7K J 1/16W R196 RK73GB1J332J CHIP R 3.3K J 1/16W	R120																
1123 RK73GB1J472J CHIP R 4.7K J 1/16W R196 RK73GB1J332J CHIP R 3.3K J 1/16W	R121			RK73GB1J100J	CHIP R	10 J	1/16W		R192			RK73GB1J103J	CHIP R	10K	J 1,	/16W	
1123 RK73GB1J472J CHIPR 4.7K J 1/16W R196 RK73GB1J332J CHIPR 3.3K J 1/16W	R122			R92-1215-05	CHIP R	470 J	1/2W		R193			RK73GB1J102J	CHIP R	1.0K	J 1,	/16W	
	R123			RK73GB1J472J	CHIP R	4.7K J	1/16W		R196			RK73GB1J332J	CHIP R	3.3K	J 1	/16W	
	R124			RK73GB1J103J	CHIP R	10K J	1/16W		R197			R92-1252-05	CHIP R	0 OHM	.,		

PARTS LIST

												TX-	RX UNIT (X5	7-5950-XX
Ref. No.	Address	New parts	Parts No.		Description	Desti- natior	Ref. No.	Address	New parts	Parts No.		Descrip	tion	Desti- nation
R201,202			R92-1252-05	CHIP R	0 OHM		R569		İ	RK73GB1J102J	CHIP R	1.0K	1/16W	
R208			R92-0670-05	CHIP R	0 OHM		R570			RK73GB1J155J	CHIP R	1.5M		
R210			R92-1252-05	CHIP R	0 OHM		R571			RN73GH1J682D	CHIP R	6.8K [
R219-221			R92-1252-05	CHIP R	0 OHM		R572			RK73GB1J473J	CHIP R	47K	, -	
R501			RK73GB1J473J	CHIP R	47K J 1/1	6///	R573			RK73GB1J474J	CHIP R	470K		
1001			nk/3GBIJ4/3J	CHIP N	4/N J 1/1	ovv	no/3			nk/3db1J4/4J	CHIP N	4/UK .	1/1000	
R502			RK73GB1J472J	CHIP R	4.7K J 1/1	6W	R574			RN73GH1J683D	CHIP R	68K [) 1/16W	
R503			RK73GB1J102J	CHIP R	1.0K J 1/1	6W	R575			RK73GB1J101J	CHIP R	100	1/16W	
R504-507			RK73GB1J473J	CHIP R	47K J 1/1	I	R576			RK73GB1J224J	CHIP R	220K		
R508			RK73GB1J102J	CHIP R	1.0K J 1/1	I	R577			RK73GB1J103J	CHIP R	10K	,	
R509,510			R92-1252-05	CHIP R	0 OHM	ow	R578			RN73GH1J682D	CHIP R	6.8K [
11000,010			1102 1232 00		O OTHER		111070					0.010	1,10**	
R511			RK73GB1J473J	CHIP R	47K J 1/1		R579			RK73GB1J223J	CHIP R	22K .	1/16W	
R512			RK73GB1J104J	CHIP R	100K J 1/1	6W	R580			R92-1252-05	CHIP R	0 OHM		
R513			RK73GB1J223J	CHIP R	22K J 1/1	6W	R581			RK73GB1J394J	CHIP R	390K J	1/16W	
R514			RK73GB1J473J	CHIP R	47K J 1/1	6W	R582			RK73GB1J273J	CHIP R	27K .	1/16W	
R515,516			RK73GB1J223J	CHIP R	22K J 1/1	6W	R583			RK73GB1J470J	CHIP R	47	1/16W	
R517			RK73GB1J473J	CHIP R	47K J 1/1	6///	R584			RK73GB1J220J	CHIP R	22 .	1/16W	
R518			RK73GB1J473J	CHIP R			1 1				CHIP R	0 OHM	1/1044	
						I	R585			R92-1252-05	1		1/10\4/	
R519			RK73GB1J103J	CHIP R	10K J 1/1		R586			RK73GB1J473J	CHIP R	47K .	1/16W	
R520-523			RK73GB1J102J	CHIP R	1.0K J 1/1	I	R587			R92-1252-05	CHIP R	0 OHM		
R526			RK73GB1J154J	CHIP R	150K J 1/1	6W	R588			RK73GB1J103J	CHIP R	10K .	1/16W	
R527			R92-1252-05	CHIP R	0 OHM		R590			RK73GB1J333J	CHIP R	33K .	1/16W	
R528			RK73GB1J472J	CHIP R	4.7K J 1/1	6W	R591			R92-1252-05	CHIP R	0 OHM		
R529			RK73GB1J154J	CHIP R	150K J 1/1	I	R592			RK73GB1J103J	CHIP R	10K	1/16W	
R530			RK73GB1J473J	CHIP R	47K J 1/1		R593			RK73GB1J181J	CHIP R	180	, -	
1530 1531			RK73GB1J394J	CHIP R	390K J 1/1	I	R594			RK73GB1J1813	CHIP R	3.9K		
3532			RK73GB1J103J	CHIP R	10K J 1/1		R595			RK73GB1J181J	CHIP R	180 J	, -	
3533			RK73GB1J104J	CHIP R	100K J 1/1	6W	R598			RK73GB1J473J	CHIP R	47K .	1/16W	
3534			RK73GB1J823J	CHIP R	82K J 1/1	6W	R599			RK73GB1J102J	CHIP R	1.0K	1/16W	
3535			RK73GB1J103J	CHIP R	10K J 1/1	6W	R600			R92-1252-05	CHIP R	0 OHM		
R536			RK73GB1J153J	CHIP R	15K J 1/1	I	R602			RK73GB1J473J	CHIP R	47K .	1/16W	
R537			RK73GB1J105J	CHIP R	1.0M J 1/1	6///	R603			RK73GB1J101J	CHIP R	100	1/16W	
R538			RK73GB1J103J	CHIP R	10K J 1/1	I	1 1			RK73GB1J472J	CHIP R		, -	
				-		OVV	R604				1		, -	
R539			R92-1252-05	CHIP R	0 OHM		R605			RK73GB1J332J	CHIP R	3.3K		
R540			RK73GB1J223J	CHIP R	22K J 1/1	I	R606			RK73GB1J102J	CHIP R	1.0K J		
R541			RK73GB1J184J	CHIP R	180K J 1/1	6W	R607			RK73GB1J101J	CHIP R	100	1/16W	
R542			RK73GB1J102J	CHIP R	1.0K J 1/1	6W	R608			RK73GB1J122J	CHIP R	1.2K	1/16W	
3543			RK73GB1J184J	CHIP R	180K J 1/1	6W	R610,611			RK73GB1J473J	CHIP R	47K .	1/16W	
R544			RK73GB1J103J	CHIP R	10K J 1/1	6W	R612			R92-1201-05	CHIP R	220	1/2W	
R545			RK73GB1J472J	CHIP R	4.7K J 1/1		R613			RK73GB1J103J	CHIP R	10K		
3546			RN73GH1J913D	CHIP R	91K D 1/1		R614,615			R92-1252-05	CHIP R	0 OHM	.,	
R547			RK73GB1J103J	CHIP R	10K J 1/1		R616			RK73GB1J474J	CHIP R	470K	, -	
3548			RN73GH1J333D	CHIP R	33K D 1/1	I	R617			RK73GB1J472J	CHIP R	4.7K .		
1549			RN73GH1J913D	CHIP R	91K D 1/1	6W	R618			RK73GB1J683J	CHIP R	68K .	1/16W	
R550			RN73GH1J683D	CHIP R	68K D 1/1	6W	R619			RK73GB1J104J	CHIP R	100K	1/16W	
1551,552			RK73GB1J223J	CHIP R	22K J 1/1	6W	R620,621			RK73GB1J103J	CHIP R	10K .	1/16W	
553			RK73GB1J105J	CHIP R	1.0M J 1/1	6W	R622			RK73GB1J473J	CHIP R	47K .	1/16W	
1554			RN73GH1J913D	CHIP R	91K D 1/1	I	R630			R92-1252-05	CHIP R	0 OHM		
R555,556			RK73GB1J104J	CHIP R	100K J 1/1	I	R701			RK73GB1J473J	CHIP R	47K	1/16W	
557			RN73GH1J274D	CHIP R	270K D 1/1		R704			RK73GB1J473J	CHIP R	22K	, -	1
1558			R92-1252-05	CHIP R	0 OHM	UVV	R720			R92-1252-05	CHIP R	0 OHM	1/1000	
1559			DV70CD1 1000 I	CHIP R	33K J 1/1	6///	D722			R92-1252-05	CHIP R	0 OHM		
			RK73GB1J333J				R722			1132-1232-03	CHILL	U UHIVI		
R560			RK73GB1J474J	CHIP R	470K J 1/1	I	1			HODAGS	DIOD-			
1561			RK73GB1J333J	CHIP R	33K J 1/1	bVV	D1			HSB123	DIODE			
562			R92-1252-05	CHIP R	0 OHM		D2			02DZ20(Y,Z)	ZENER DI	ODE		
563			RK73GB1J473J	CHIP R	47K J 1/1	6W	D3-5			HSB123	DIODE			
R564			RK73GB1J223J	CHIP R	22K J 1/1	6W	D8 D9			DAN235K 1SS355	DIODE			
1565			R92-1252-05	CHIP R	0 OHM	U V V				100000	PIONE			1
						e\A/	D10			DVNSSEN	DIODE			
R566			RK73GB1J563J	CHIP R	56K J 1/1		D10			DAN235K	DIODE			1
3567			RK73GB1J334J RK73GB1J473J	CHIP R	330K J 1/1	I	D11 D14			MA742 1SS355	DIODE			1
R568					47K J 1/1	6W	1111/	1	1	LICCORR	DIODE			

PARTS LIST

TX-RX UNIT (X57-5950-XX) PLL/VCO (X58-4670-10)

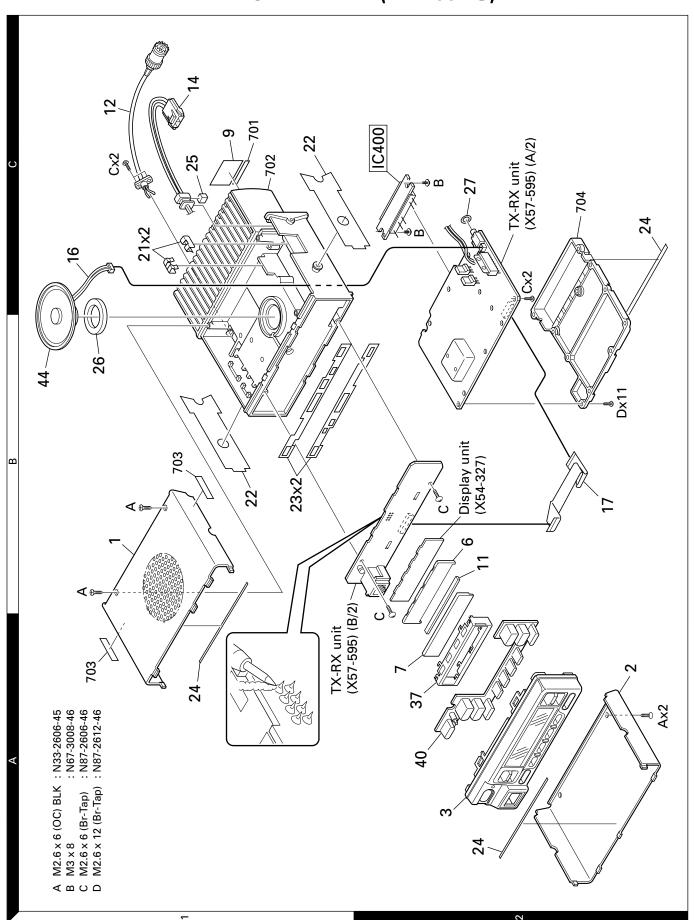
PLL/VCO (70-1 New	•	.	Desti-	D (N	Ī	New	D . N	B		Desti-
Ref. No.	Address	parts	Parts No.	Description	nation	Ref. No.	Address	parts	Parts No.	Description		nation
D15			DAN202K	DIODE		07			2SC4649(N,P)	TRANSISTOR		
D16			DAN235K	DIODE		Q8			2SC2412K	TRANSISTOR		
D17			1SS355	DIODE		Q9 Q10			2SC4215(Y)	TRANSISTOR		
D18 D19,20			HVC350B 1SS355	VARIABLE CAPACITANCE DIODE DIODE		Q11			2SC2412K	TRANSISTOR TRANSISTOR		
D19,20			199333	DIODE		Tui i			2SA1832(GR)	INANSISTON		
D21			02DZ18(X,Y)	ZENER DIODE		Q12			2SC4738(GR)	TRANSISTOR		
D22			HSB123	DIODE		Q13,14			2SC4649(N,P)	TRANSISTOR		
D23			HVC350B	VARIABLE CAPACITANCE DIODE		015			3SK228	FET TO A NOVOTO D		
D24 D25			02DZ15(X,Y) 22ZR-10D	ZENER DIODE SURGE ABSORBER		Q16 Q17			DTC114EKA DTC363EU	DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
עבט			22Zn-10D	SUNGE ABSUNDEN		U17			D10303E0	DIGITAL TRANSISTOR		
D26			DSA3A1-FK	DIODE		Q18			2SA1745(6,7)	TRANSISTOR		
D27			1SS355	DIODE		Q19			DTC114EKA	DIGITAL TRANSISTOR		
D28			HVC350B	VARIABLE CAPACITANCE DIODE		020			DTA114EKA	DIGITAL TRANSISTOR		
D30,31 D34			HVC350B MA4PH633	VARIABLE CAPACITANCE DIODE DIODE		Q21 Q22			DTC114EKA 2SC3357	DIGITAL TRANSISTOR TRANSISTOR		
D34			IVIA4F NOSS	DIODE		UZZ			2303337	INANSISTON		
D35,36			MA742	DIODE		023			2SA1641(S,T)	TRANSISTOR		
D37		*	XB15A709	DIODE		024 025			DTA114EKA	DIGITAL TRANSISTOR		
D39 D40			UDZ4.7(B)	ZENER DIODE		Q26			2SC2954	TRANSISTOR		
D40 D41			MA742 HZU5ALL	DIODE		027			DTA114EKA 3SK241(R)	DIGITAL TRANSISTOR FET		
D501-504			MA2S111	DIODE		028			2SB1132(Q,R)	TRANSISTOR		
D505			MA2S111	DIODE	762	029			DTC114EKA	DIGITAL TRANSISTOR		
D506,507			MA2S111	DIODE		Q31			2SC2412K	TRANSISTOR		
D508 D523			MA742 DAN202U	DIODE		032 033			2SB1565(E,F) DTC114EKA	TRANSISTOR DIGITAL TRANSISTOR		
D524,525			HSB123	DIODE		035			DTC144EKA	DIGITAL TRANSISTOR		
D526			1812L075PR	VARISTOR		036			2SC2412K	TRANSISTOR		
D527,528 D529			HSB123 MA742	DIODE		Q37,38 Q501			2SK1824 2SC4619	FET TRANSISTOR		
IC1,2			TA75S01F	IC (OP AMP)		Q502,503			DTC114EE	DIGITAL TRANSISTOR		
100			MD4FA00	10 (DIT 10)		0504			2004047/01	TRANCICTOR		
IC3 IC4			MB15A02 NJM4558M	IC (PLL IC) IC (OP AMP X2)		Q504 Q505			2SC4617(S) 2SB1132(Q,R)	TRANSISTOR TRANSISTOR		
IC5			TA31136FN	IC (FM IF DETECTOR)		Q506			DTC114EE	DIGITAL TRANSISTOR		
IC6			M62363FP	IC (8bit D/A CONVERTER)		Q508			2SC4617(S)	TRANSISTOR		
IC7			NJM2904M	IC (OP AMP X2)		Q509			DTC363EU	DIGITAL TRANSISTOR		
IC8			UPB1509GV	IC		TH1			157-153-65001	THERMISTOR		
IC9			BU4094BCF	IC (8-STAGE SHIFT/STORE REGISTER)		''''			137 133 03001	THEHWIOTOH		
IC10			NJM78L05UA	IC (VOLTAGE REGULATOR/ +5V)								
IC11			AN8009M	IC (REGULATOR)								
IC12			TA7808S	IC (REGULATOR)						VEO 4070 40\		
IC13			LA4422	IC (AF POWER AMP/ 5.8W)					1	X58-4670-10)		
IC14			TC4013BF(N)	IC (MEMORY)		C102			CK73GB1H471K	CHIP C 470PF K		
IC15	00.05		TA75S01F	IC (OP AMP)		C104,105			CC73GCH1H150J	CHIP C 15PF J		
IC400 IC501	2C,2F		M68702H AT29C020-90TI	IC (POWER MODULE) IC (FLASH ROM)		C107 C110			CC73GCH1H080D CC73GCH1H040B	CHIP C 8.0PF D CHIP C 4.0PF B		
10001			W1790970-9011	IO (I EAGIT HOIVI)		C110			CC73GCH1H050B	CHIP C 5.0PF B		
IC502			30622M4102GP	CPU								
IC503			RH5VL42C	IC (REGULATOR)		C112,113			CC73GCH1H020B	CHIP C 2.0PF B		
IC505			AT2408N10SI2.5	IC (8kbit SERIAL EEPROM)		C114,115 C116			CC73GCH1H060D	CHIP C 6.0PF D CHIP C 12PF J		
IC507 IC508			NJM2904V TC35453F	IC (APC) IC (AUDIO PROCESSOR)		C116 C117			CC73GCH1H120J CK73GB1H471K	CHIP C 12PF J CHIP C 470PF K		
10000			10000000	IO (MODIO I HOOLOOOH)		C117			CC73GCH1H050B	CHIP C 5.0PF B		
IC509			BU4066BCFV	IC (ANALOG SWITCH X4)								
IC510			BU4094BCFV	IC (8bit SHIFT/STORE REGISTER)		C119,120			CK73GB1H471K	CHIP C 470PF K		
IC511			LC73872M	IC (DTMF RECEIVER)		C121			CC73GCH1H090D	CHIP C 9.0PF D		
IC512 IC513			NJM78L05UA TA75W558FU	IC (VOLTAGE REGULATOR) IC (OP AMP X2)		C122 C123			CC73GCH1H0R5B CK73GB1H471K	CHIP C 0.5PF B CHIP C 470PF K		
10010			1547 344 3301 U	TO (OF AIVII AZ)		C123			CC73GCH1H0R5B	CHIP C 4/0PF R		
IC514			TC75W51FU	IC (OP AMP X2)								
Q1			DTD114EK	DIGITAL TRANSISTOR		C125			CK73GB1H102K	CHIP C 1000PF K		
Q2 Q3			KRA225S DTA114EKA	DIGITAL TRANSISTOR DIGITAL TRANSISTOR		C126 C127			CK73GB1H471K CC73GCH1H100D	CHIP C 470PF K CHIP C 10PF D		
Q4-6			DTC114EKA	DIGITAL TRANSISTOR		TC106			C05-0384-05	CERAMIC TRIMMER CAP (10	NP/8)	
2.3						. 5100			200 000 1 00		TK-760H	

PARTS LIST

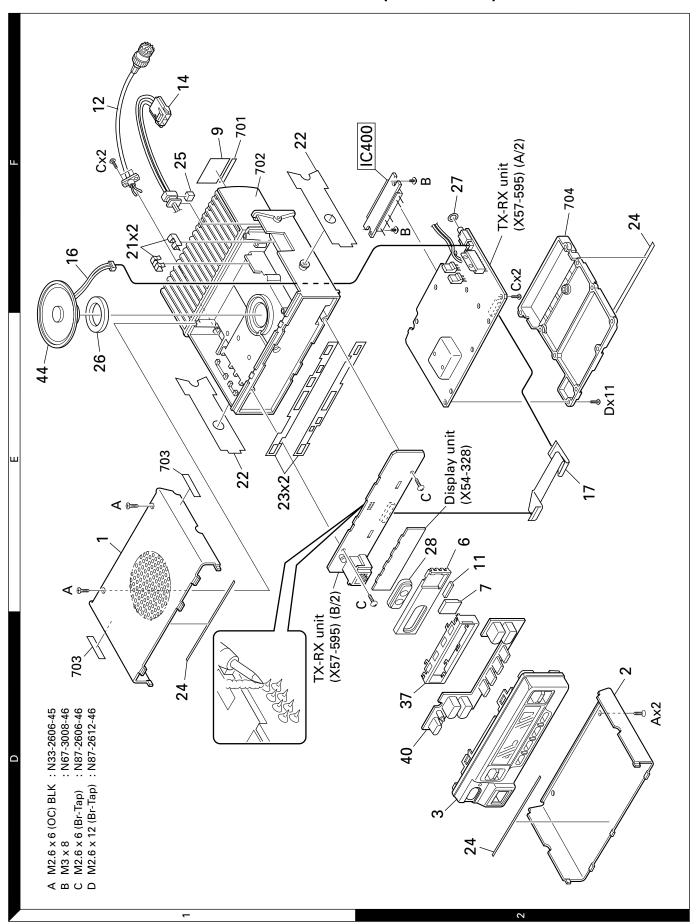
PLL/VCO (X58-4670-10)

Ref. No.	Address	New	Parts No.	Doogrinting	Desti-	Ref. No.	Address	New	Parts No.	PLL/VCO (X5	Desti-
	Address	parts		Description	nation	Ket. No.	Address	parts	Parts No.	Description	nation
TC109			C05-0384-05	CERAMIC TRIMMER CAP (10P/8)							
CN101			E40-6019-05	PIN ASSY							
-			F10-2279-04	SHIELDING CASE							
L101-104			L40-1595-34 L40-3975-34	SMALL FIXED INDUCTOR (1.5UH/8)							
L105 L106			L40-2775-34	SMALL FIXED INDUCTOR (39NH/8) SMALL FIXED INDUCTOR (27NH/8)							
L107,108 L109,110			L40-1098-76 L40-1595-34	SMALL FIXED INDUCTOR (1UH/2522) SMALL FIXED INDUCTOR (1.5UH/8)							
L111 L116			L34-4547-05 L34-4549-05	AIR-CORE COIL AIR-CORE COIL							
R101,102			RK73GB1J101J	CHIP R 100 J 1/16W							
R103			RK73GB1J102J	CHIP R 1.0K J 1/16W							
R104 R105			RK73GB1J470J RK73GB1J154J	CHIP R 47 J 1/16W CHIP R 150K J 1/16W							
R106			RK73GB1J470J	CHIP R 150K J 1/16W CHIP R 47 J 1/16W							
R107-110			RK73GB1J103J	CHIP R 10K J 1/16W							
R111			RK73GB1J331J	CHIP R 330 J 1/16W							
R112,113 R114			RK73GB1J181J RK73GB1J470J	CHIP R 180 J 1/16W CHIP R 47 J 1/16W							
R115			RK73GB1J103J	CHIP R 10K J 1/16W							
R116			RK73GB1J392J	CHIP R 3.9K J 1/16W							
R117			RK73GB1J101J	CHIP R 100 J 1/16W							
D101-104			1SV283	VARIABLE CAPACITANCE DIODE							
D105 Q101			HVU363A 2SK508NV(K52)	DIODE FET							
Q102			DTC114EUA	DIGITAL TRANSISTOR							
Q103			2SK508NV(K52)	FET							
0104,105			2SC4081	TRANSISTOR							
Q106			2SC4226(R24)	TRANSISTOR							
l	1										

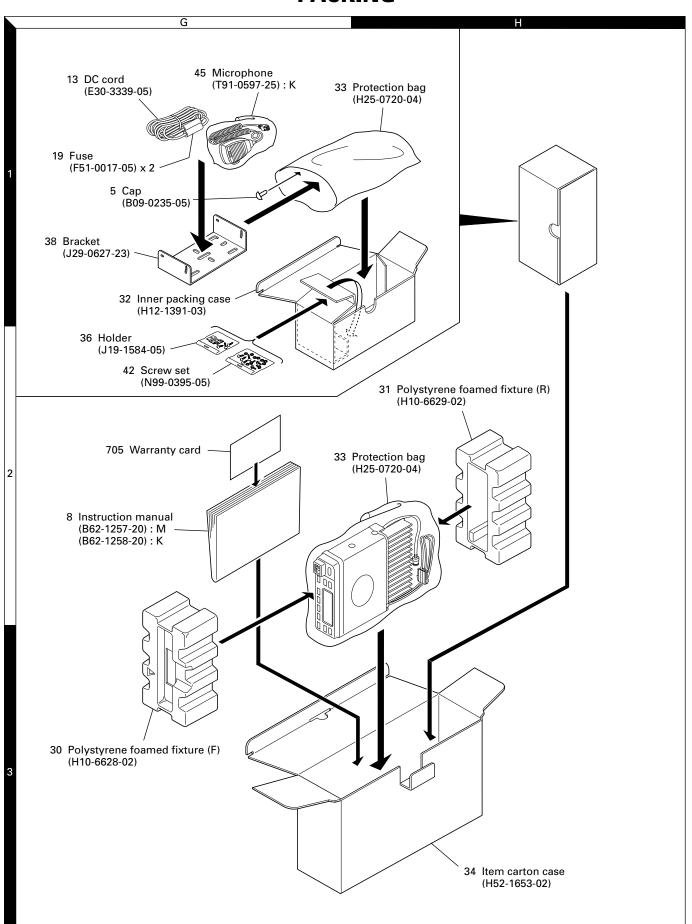
EXPLODED VIEW (TK-760HG)



EXPLODED VIEW (TK-762HG)



PACKING



ADJUSTMENT

Test Mode (TK-760HG Only)

■ Test Mode Operating Features

This transceiver has a test mode. To enter test mode, press [SCN] key and turn power on. Hold [SCN] key until test channel No. and test signalling No. appears on LCD. Test mode can be inhibited by programming. To exit test mode, switch the power on again. The following functions are available in test mode.

Controls

[PTT] Used when making a transmission.

[MON] Monitor on and off.
[SCN] Sets to the tuning mode.

[A] Function on.

[D/A] RF power high and low.
[▼] Changes signalling.
[▲] Changes wide and narrow

· LCD indicator

"SCN" Unused.

"AUX" Lights at RF power low.
"MON" Lights at monitor on.
"Right side dot" Lights at narrow.

LED indicator

Red LED Lights during transmission.

Green LED Lights when there is a carrier.

■ Frequency and Signalling

The set has been adjusted for the frequencies shown in the following table. When required, re-adjust them following the adjustment procedure to obtain the frequencies you want in actual operation.

Frequency (MHz)

Channel	TK-760HG/	/762HG (K)	TK-760	HG (M)
No.	RX	TX	RX	TX
1 (Center)	161.050	161.100	160.050	160.100
2 (Low)	148.050	148.100	146.050	146.100
3 (High)	173.950	173.900	173.950	173.900
4	161.000	161.000	160.000	160.000
5	161.200	161.200	160.200	160.200
6	161.400	161.400	160.400	160.400
7~16	_	_	_	_

Signalling

Signalling No.	RX	TX
1	None	None
2	None	100Hz square
3	QT 67.0Hz	QT 67.0Hz
4	QT 151.4Hz	QT 151.4Hz
5	QT 210.7Hz	QT 210.7Hz
6	QT 250.3Hz	QT 250.3Hz
7	DQT D023N	DQT D023N
8	DQT D754I	DQT D754I
9	DTMF DEC, (159D)	DTMF ENC, (159D)
10	None	DTMF tone (9)
11	2-tone 321.7/928.1Hz	None
12	Single tone 1200Hz	Single tone 1200Hz

· Preparations for tuning the transceiver

Before attempting to tune the transceiver, connect the unit to a suitable power supply.

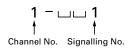
Whenever the transmitter is turned, the unit must be connected to a suitable dummy load (i.e. power meter).

The speaker output connector must be terminated with a 4Ω dummy load and connected to an AC voltmeter and an audio distortion meter or a SINAD measurement meter at all times during tuning.

Transceiver tuning (To place transceiver in tuning mode)

Channel appears on LCD. Set channel according to tuning requirements.

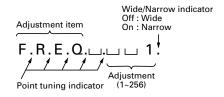
LCD display (Test mode)



Press [SCN], now in tuning mode. Use [D/A] button to write tuning data through tuning modes, and $[CH \land] \lor$ to adjust tuning requirements (1 to 256 appears on LCD).

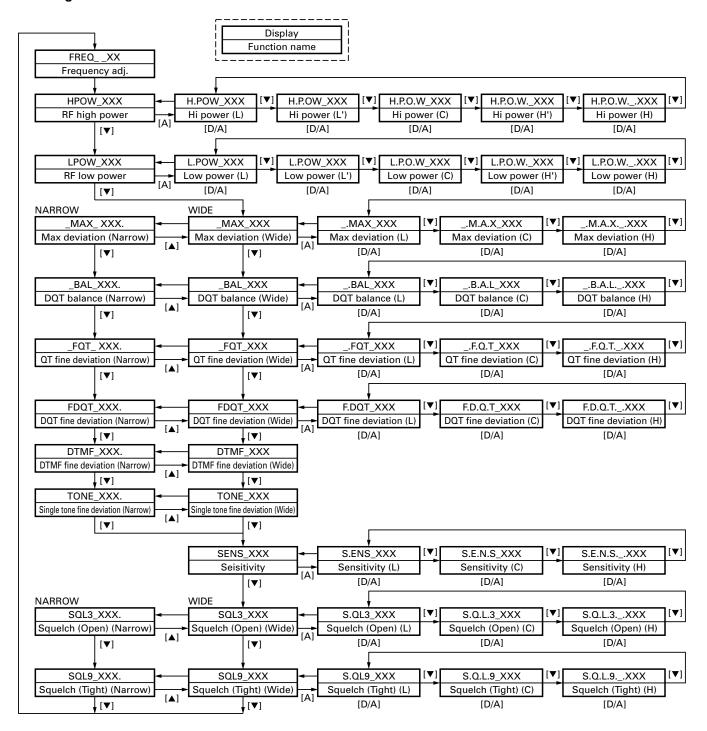
Use [▼] button to select the adjustment item through tuning modes. Use [A] button to adjust 3-point or 5-point tuning, and use [▲] button to switch between wide/narrow.

LCD display (Tuning mode)



ADJUSTMENT

■ Tuning Mode



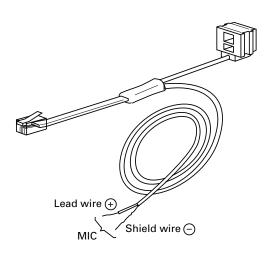
ADJUSTMENT

Test Equipment Required for Alignment

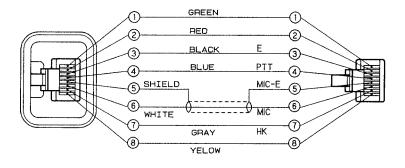
Test Equipment		Major Specifications
Standard Signal Generator	Frequency Range	136 to 174MHz
(SSG)	Modulation	Frequency modulation and external modulation
	Output	–127dBm/0.1 μ V to greater than –7dBm/100mV
2. Power Meter	Input Impedance	50Ω
	Operation Frequency	136 to 174MHz or more
	Measurement Capability	Vicinity of 100W
3. Deviation Meter	Frequency Range	136 to 174MHz
4. Digital Volt Meter	Measuring Range	1 to 20V DC
(DVM)	Accuracy	High input impedance for minimum circuit loading
5. Oscilloscope		DC through 30MHz
6. High Sensitivity	Frequency Range	10Hz to 1000MHz
Frequency Counter	Frequency Stability	0.2ppm or less
7. Ammeter		20A
8. AF Volt Meter	Frequency Range	50Hz to 10kHz
(AF VTVM)	Voltage Range	1mV to 10V
9. Audio Generator (AG)	Frequency Range	20Hz to 20kHz or more
	Output	0 to 1V
10. Distortion Meter	Capability	3% or less at 1kHz
	Input Level	50mV to 10Vrms
11. 4Ω Dummy Load		Approx. 4Ω , 10W or more
12. Regulated Power Supply		13.6V, approx. 20A (adjustable from 9 to 20V)
		Useful if ammeter requipped

Tuning cable (E30-3383-05)

Adapter cable (E30-3383-05) is required for injecting an audio if PC tuning is used. See "PC Mode" section for the connection.



Test cable for microphone input (E30-3360-08)



MIC connector (Front view)



1 : BLC

2 : PSB

3 : E

4 : PTT

5 : ME

6 : MIC

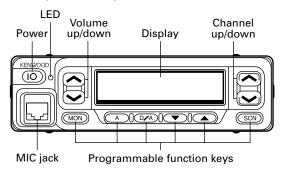
7 : HOOK

8 : CM

ADJUSTMENT

Adjustment Location

■ Switch (TK-760HG)



■ Note

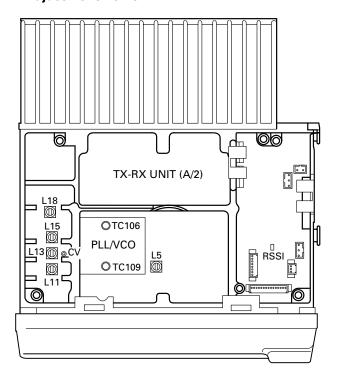
Flash memory

The firmware program (User mode, Test mode, Tuning mode, etc.) and the data programmed by the FPU (KPG-56D) for the flash memory, is stored in memory. When parts are changed, program the data again.

EEPROM

The tuning data (Deviation, Squelch, etc.) for the EEPROM, is stored in memory. When parts are changed, readjust the transceiver.

■ Adjustment Point



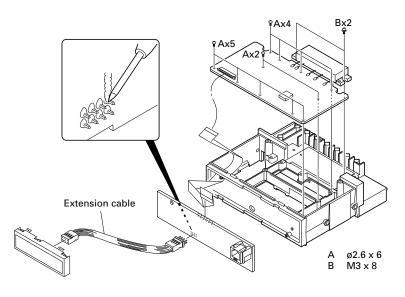
■ Repair Jig

Chassis

Use jig (Part No. : A10-4010-02) for repairing the TK-760HG/762HG. The jig facilitates the voltage check when the voltage on the component side TX-RX unit is checked during repairs.

· Extension cable

Part No.: E30-3404-05



ADJUSTMENT

Common Section Since the TK-762HG cannot be tuned from the panel, the FPU (KPG-56D) should be used for adjustment.

		Mea	sureme	nt		Adj	ustment	
Item	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks
1. PLL lock voltage RX	1) Set test mode CH: CH3 - Sig1	DVM Power meter F. conter		CV	PLL	TC106	7.5V	±0.1V
TX	2) PTT : ON (Transmit)					TC109	7.5V	
RX	3) CH: CH2 - Sig1 AUX: ON (talk-around mode)						Check	1.0V or more
TX	4) PTT : ON (Transmit)							0.5V or more

Receiver Section

		Measurement				Adj	ustment	
ltem	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks
1. Discriminator • Wide	1) Set test mode CH: CH1 - Sig1 SSG output: -53dBm/501μV SSG MOD: 3kHz AF: 1.4V/4Ω	SSG AF VTVM Oscilloscope	Rear panel	ANT ACC (EXT.SP)	TX-RX (A/2)	L5	AF output maximum.	
2. Sensitivity • Wide	1) Set test mode Select "SENS" in tuning mode. "S.E.N.S" Adjust [120] SSG freq' : 161.050MHz K : 160.050MHz M SSG output: –118dBm/0.28μV SSG MOD: 3kHz AF output: 1V/4Ω	AF VTVM Distortion meter Oscilloscope AG DVM	Rear panel TX-RX (A/2)	ANT ACC (EXT.SP)	TX-RX (A/2)	L11 L13 L15 L18	RSSI voltage maximum.	
	2) "S.ENS" Adjust [***] SSG freq' : 148.050MHz K : 146.050MHz M				Front panel	CH~/~		
	Adjust [***] SSG freq' : 173.950MHz							
3. Squelch 3 • Wide	1) Set test mode Select "SQL3" in tuning mode. "S.QL3" Adjust [***] SSG freq' : 148.050MHz K : 146.050MHz M SSG output: -127dBm/0.1µV SSG MOD: 3kHz (Wide) 1.5kHz (Narrow)						Adjust to the squelch threshold point.	

ADJUSTMENT

		Mea	sureme	ent		Adj	ustment				
ltem	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks			
	2) "S.Q.L.3" Adjust [***] SSG freq' : 161.050MHz K : 160.050MHz M 3) "S.Q.L3" Adjust [***] SSG freq' : 173.950MHz	SSG AF VTVM Distortion meter Oscilloscope AG	Rear panel	ANT ACC (EXT.SP)	Front panel	CH~/~	Adjust to the squelch threshold point.				
Narrow	4) "SQL3***." Adjust [***] SSG freq' : 161.050MHz K : 160.050MHz M										
4. Squelch 9 • Wide	1) Set test mode Select "SQL9" in tuning mode. "S.QL9" Adjust [***] SSG freq' : 148.050MHz										
• Narrow	4) "SQL9***." Adjust [***] SSG freq' : 161.050MHz K : 160.050MHz M										
5. Squelch check	1) Set test mode CH: CH1 - Sig1~CH3 - Sig1 SSG output: –118dBm/0.28μV 2) SSG output: OFF						Check	Squelch must be opened. (Wide/Narrow) Squelch must be closed. (Wide/Narrow)			
6. QT check	1) Set test mode CH: CH1 - Sig4 SSG MOD INT: 3kHz (Wide) 1.5kHz (Narrow) EXT: 151.4Hz SSG system MOD DEV : ±3.75kHz (Wide) : ±1.85kHz (Narrow) SSG output: 10dB SINAD level										
	2) CH : CH1 - Sig3 CH1 - Sig5 CH1 - Sig6									Check	Squelch must be opened.

ADJUSTMENT

Transmitter Section

		Mea	sureme	ent	Adjustment			
Item	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks
1. Frequency	1) Set test mode Select "FREQ" in tuning mode. PTT : ON Adjust [_**]	Power meter F. counter		ANT	Front panel	CH~/~	Check	161.100MHz±50Hz K 160.100MHz±50Hz M
2. Power output	1) Maximum power Set test mode Select "HPOW" in tuning mode. "H.POW" Adjust [256] PTT: ON						Check	More than 52W
3. High power	1) Set test mode Select "HPOW" in tuning mode. "H.POW" PTT: ON Adjust [***]						50.0W	±2.0W
	2) "H.P.OW" PTT : ON Adjust [***]							
	3) "H.P.O.W" PTT : ON Adjust [***]							
	4) "H.P.O.W." PTT : ON Adjust [***]						45.0W	±2.0W
	5) "H.P.O.W" PTT : ON Adjust [***]							
4. Low power	1) Set test mode Select "LPOW" in tuning mode. "L.POW" PTT: ON Adjust [***]	Power mete					10.0W	±1.0W
	2) "L.P.OW" PTT : ON Adjust [***]							
	3) "L.P.O.W" PTT : ON Adjust [***]							
	4) "L.P.O.W." PTT : ON Adjust [***]							
	5) "L.P.O.W" PTT : ON Adjust [***]							
5. Power check	1) Set test mode CH: CH1 - Sig1 CH2 - Sig1 CH3 - Sig1 PTT: ON	Power meter Ammeter	Rear panel	ANT DC IN			Check	CH1, CH2 : 50W±2W, 12A or less CH3: 45W±2W, 12A or less

ADJUSTMENT

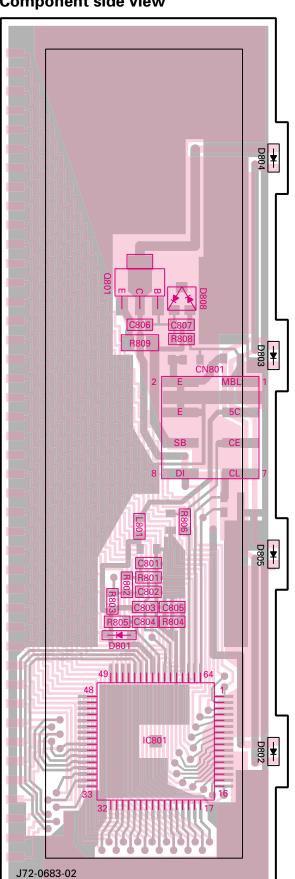
		Mea	sureme	ent		Adj	ustment	
ltem	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks
6. Modulation balanced • Wide	1) Set test mode MIC input: OFF Select "BAL" in tuning mode. "BAL" Deviation meter filter LPF: 3kHz HPF: OFF De-emphasis: OFF PTT: ON Adjust [***]	Power meter Deviation meter Oscilloscope AF VTVM AG	Rear panel Front panel	MIC	Front panel	CH~/~	Make the de- modulation waveform neat.	(Wide/Narrow)
	PTT: ON Adjust [***] 3) "B.A.L" PTT: ON Adjust [***]							
• Narrow	4) "_BAL***." PTT: ON Adjust [***]							
7. Maximum deviation • Wide	1) Set test mode Connect AG to the MIC terminal. Select "MAX" in tuning mode. "MAX" AG: 1kHz/50mV Deviation meter filter LPF: 15kHz HPF: OFF De-emphasis: OFF PTT: ON Adjust [***]						3.95kHz (Wide) 1.95kHz (Narrow) (According to the larger +, –)	±50Hz (Wide/Narrow)
	2) "M.A.X" PTT : ON Adjust [***] 3) "M.A.X" PTT : ON Adjust [***]							
• Narrow	4) "_MAX***." PTT : ON Adjust [***]							
8. MIC seisitivity check	1) Set test mode CH: CH1 - Sig1 AG: 1kHz/5mV PTT: ON Adjust [***]						Check	±3kHz±0.2kHz (Wide) ±1.5kHz±0.05kHz (Narrow)
9. QT deviation • Wide	1) Set test mode Select "FQT" in tuning mode. "FQT" Deviation meter filter LPF: 3kHz HPF: OFF PTT: ON Adjust [***]				Front panel	CH~/~	0.75kHz	±50Hz (Wide/Narrow)

ADJUSTMENT

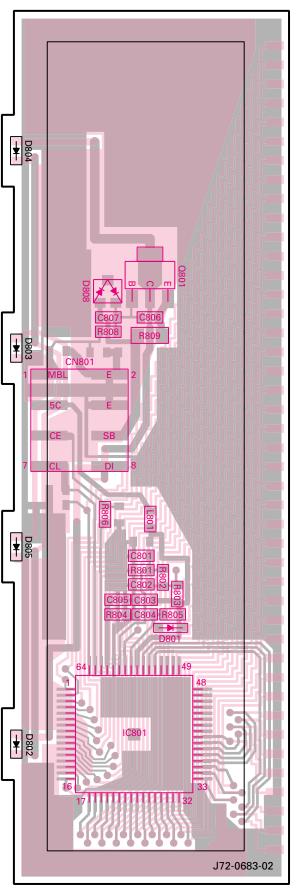
		Mea	sureme	ent	Adjustment			
Item	Condition	Test- equipment	Unit	Terminal	Unit	Parts	Method	Specifications/Remarks
	2) "F.Q.T" PTT : ON Adjust [***]	Power meter Deviation meter Oscilloscope	Rear panel	ANT	Front panel	CH~/~	0.75kHz	±50Hz (Wide/Narrow)
	3) "F.Q.T" PTT : ON Adjust [***]	AF VTVM AG	Front panel	MIC				
• Narrow	4) "_FQT***." PTT : ON Adjust [***]						0.35kHz	
10. DQT deviation • Wide	1) Set test mode Select "FDQT" in tuning mode. "F.DQT" Deviation meter filter LPF: 3kHz HPF: OFF PTT: ON Adjust [***]				Front panel	CH~/~	0.75kHz	±50Hz
	2) "F.D.Q.T" PTT : ON Adjust [***]							
	3) "F.D.Q.T" PTT : ON Adjust [***]							
• Narrow	4) "FDQT***." PTT : ON Adjust [***]						0.36kHz	±40Hz
11. DTMF deviation • Wide	1) Set test mode Select "DTMF" in tuning mode. Deviation meter filter LPF: 15kHz HPF: OFF PTT: ON Adjust [***]				Front panel	CH~/~	3.0kHz	±0.2kHz
• Narrow	2) "DTMF***." PTT : ON Adjust [***]						1.5kHz	±0.1kHz
12. TONE deviation • Wide	1) Set test mode Select "TONE" in tuning mode. Deviation meter filter LPF: 15kHz HPF: OFF PTT: ON Adjust [***]				Front panel	CH~/~	3.0kHz	±0.1kHz (Wide/Narrow)
• Narrow	2) "TONE***." PTT : ON Adjust [***]						1.5kHz	

TK-760HG/762HG PC BOARD VIEWS

DISPLAY UNIT (X54-3270-10): TK-760HG Component side view

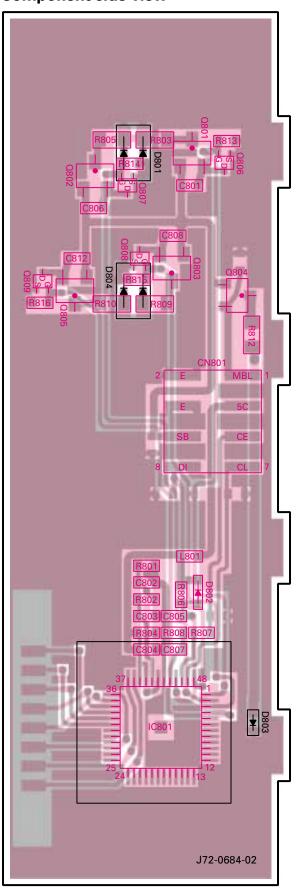


DISPLAY UNIT (X54-3270-10): TK-760HG Foil side view

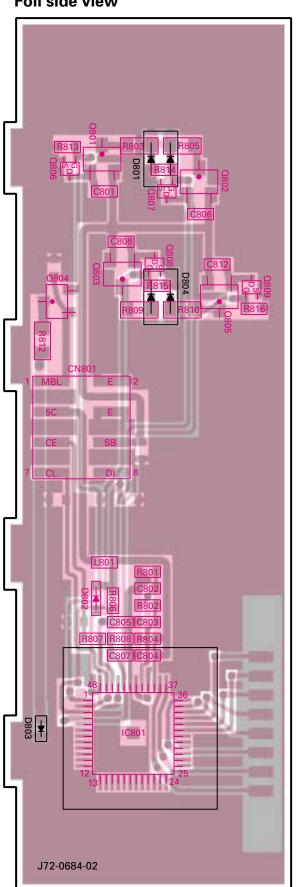


PC BOARD VIEWS TK-760HG/762HG

DISPLAY UNIT (X54-3280-10) : TK-762HG Component side view



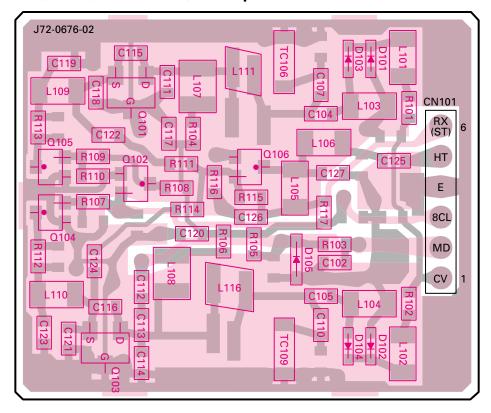
DISPLAY UNIT (X54-3280-10) : TK-762HG Foil side view



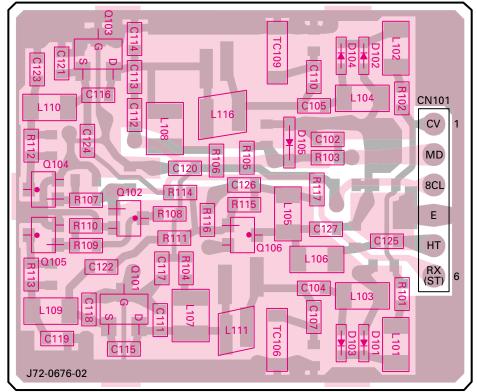
Component side Foil side

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PLL/VCO (X58-4670-10) Component side view

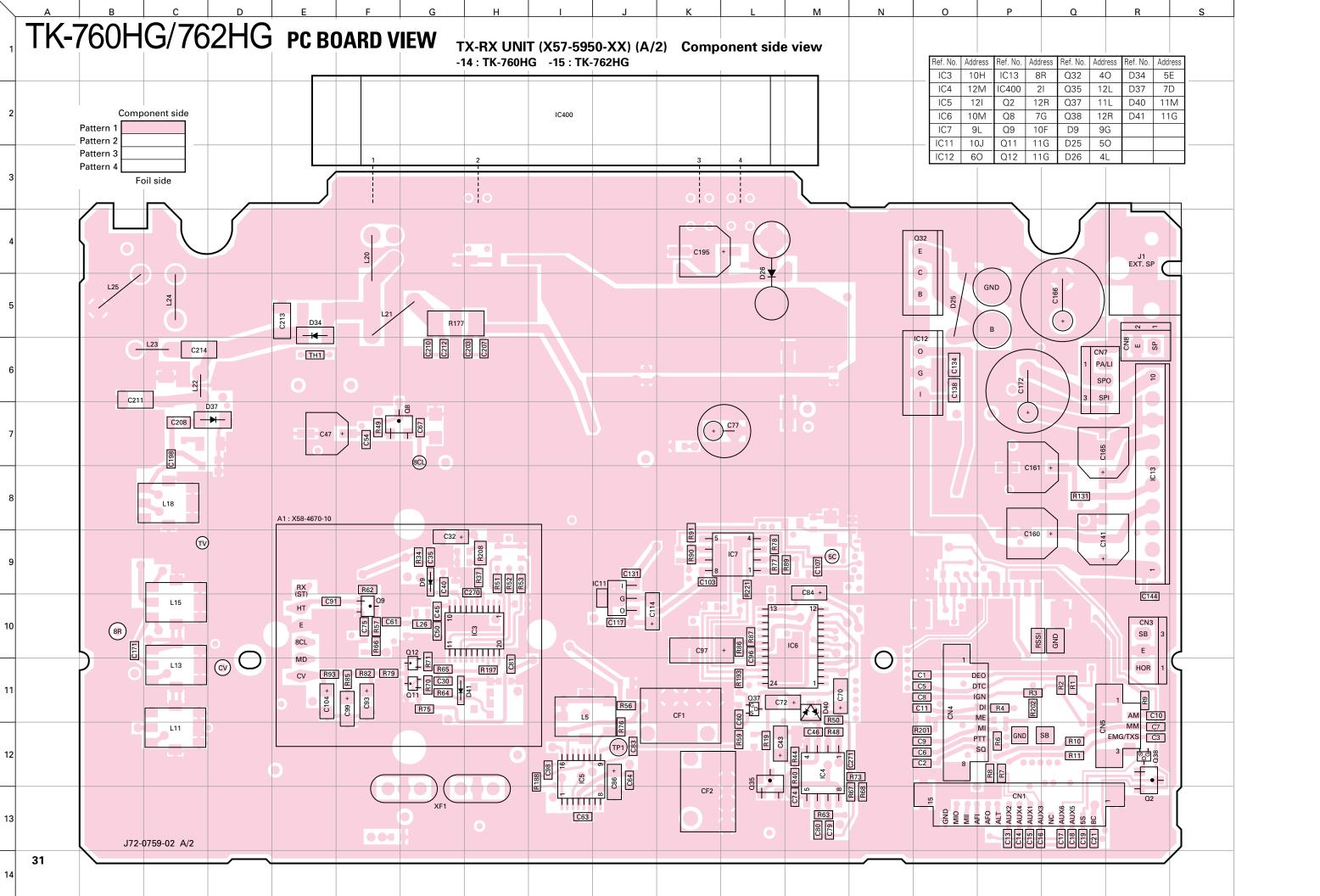


PLL/VCO (X58-4670-10) Foil side view

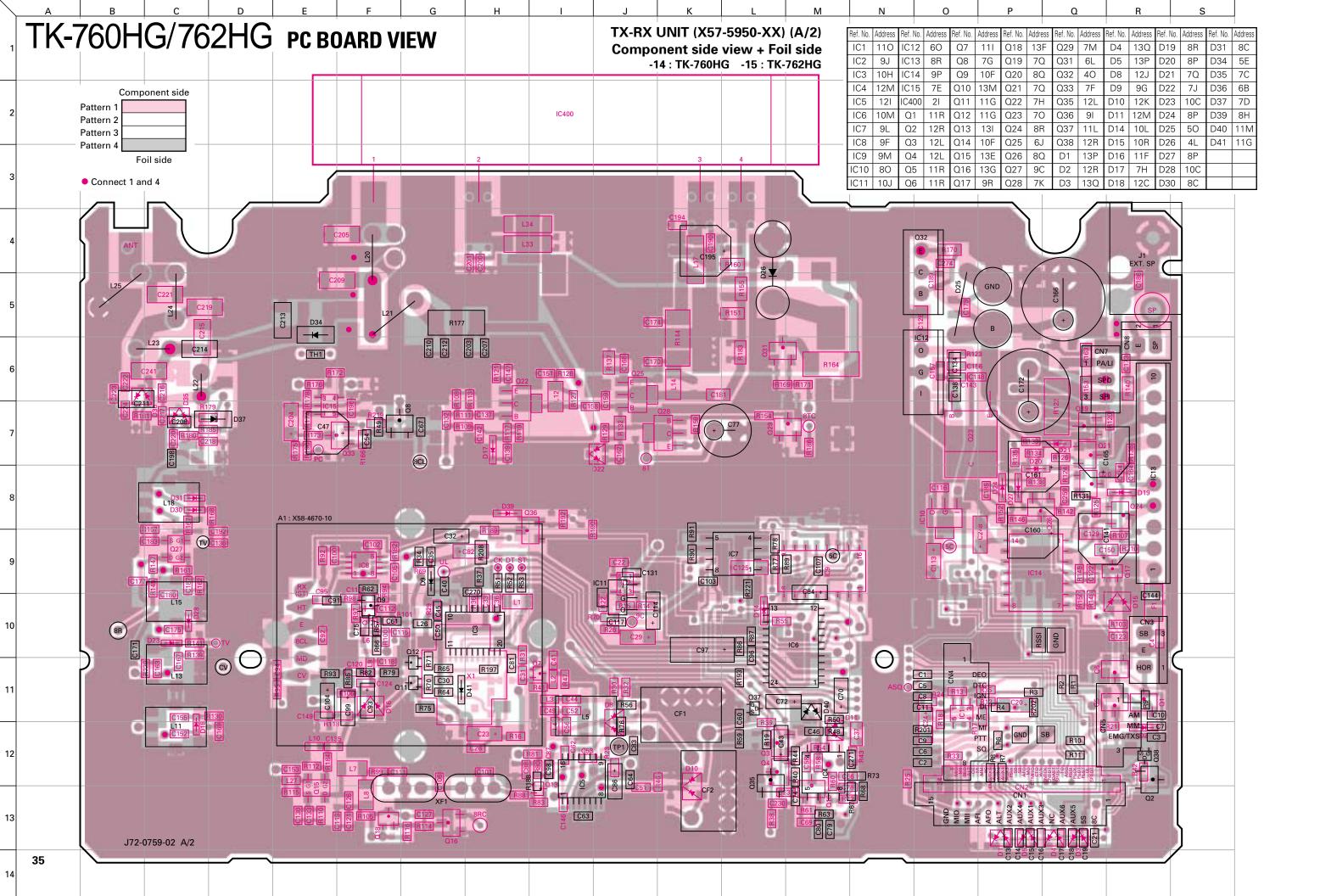


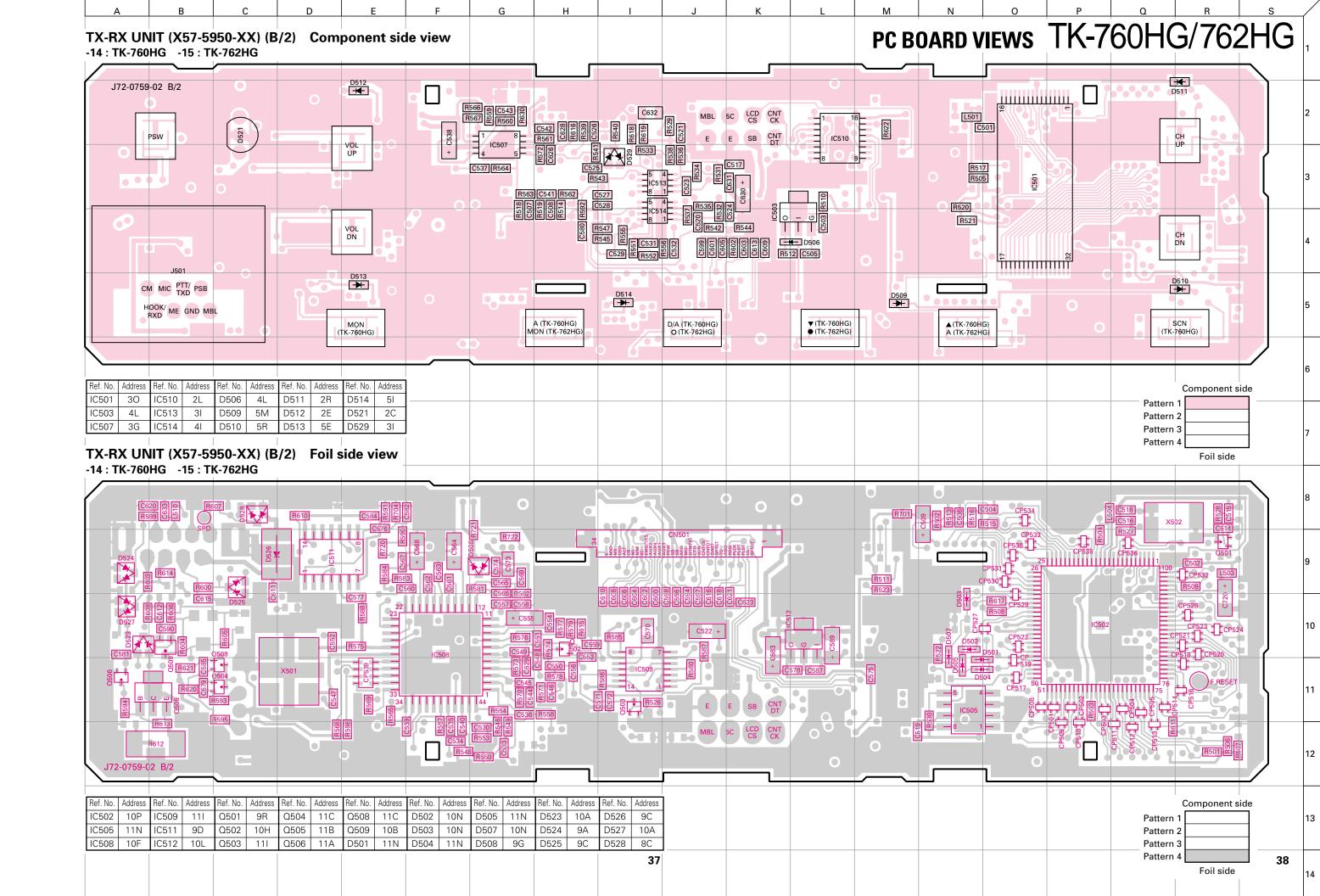
Component side
Foil side

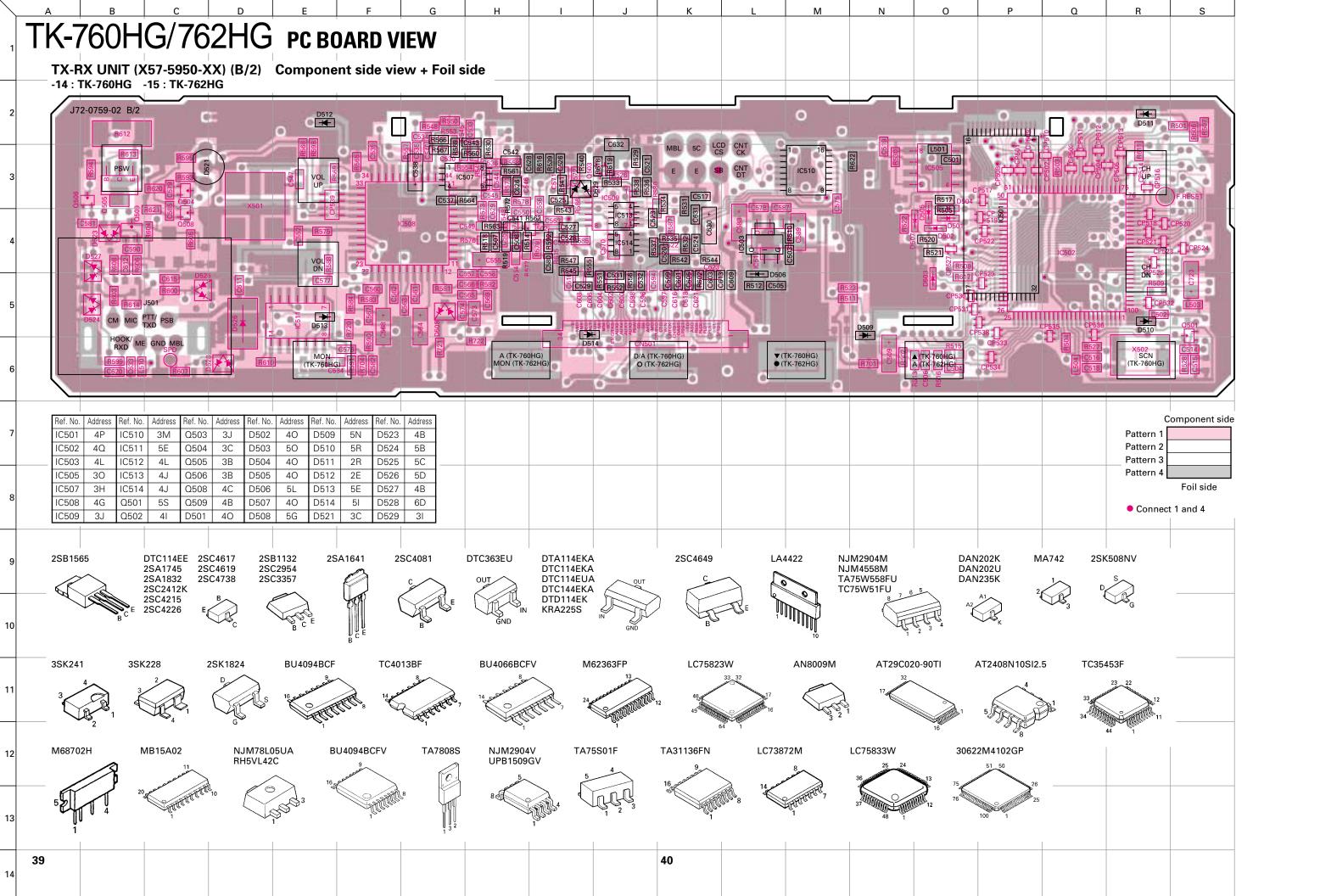
30



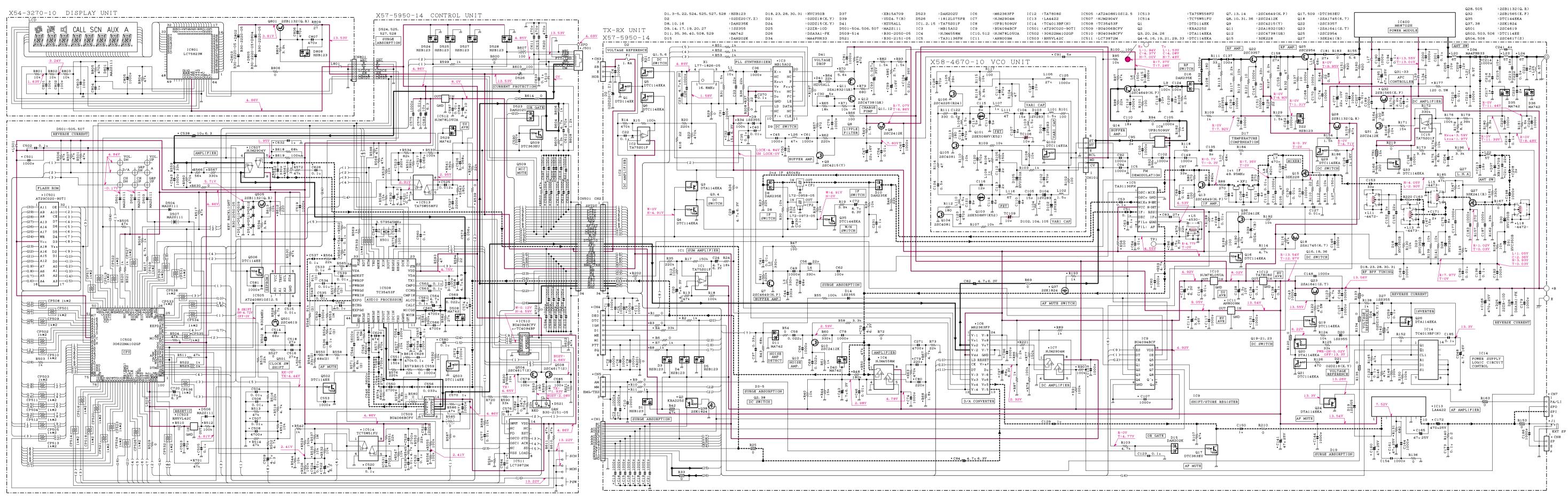


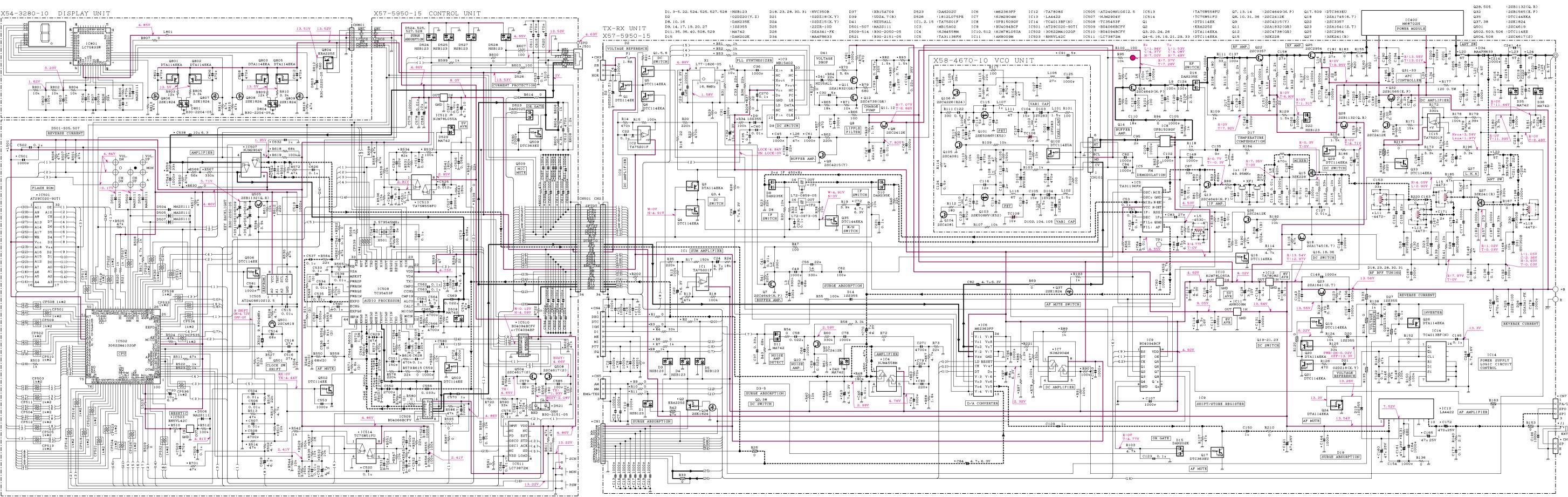




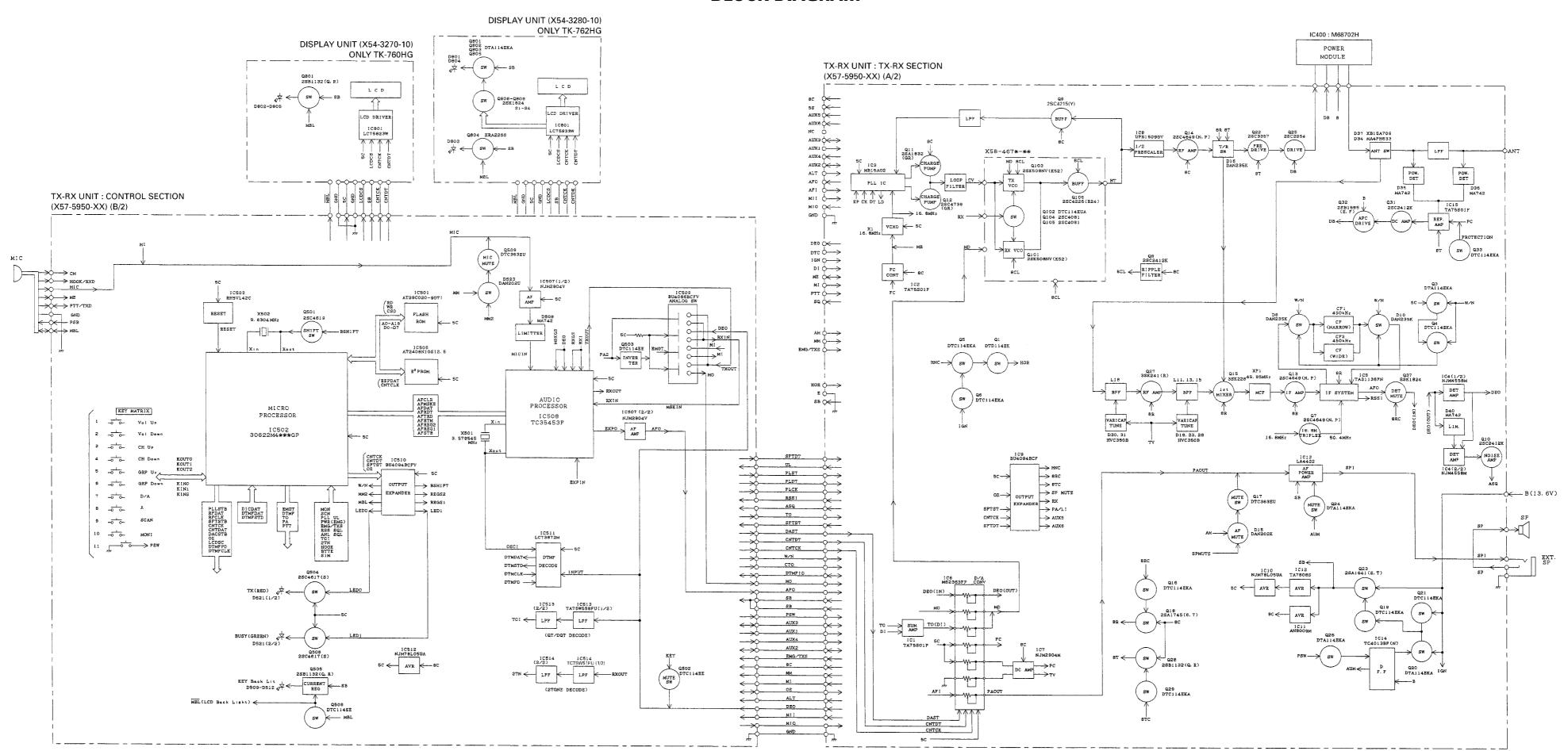


SCHEMATIC DIAGRAM TK-760HG



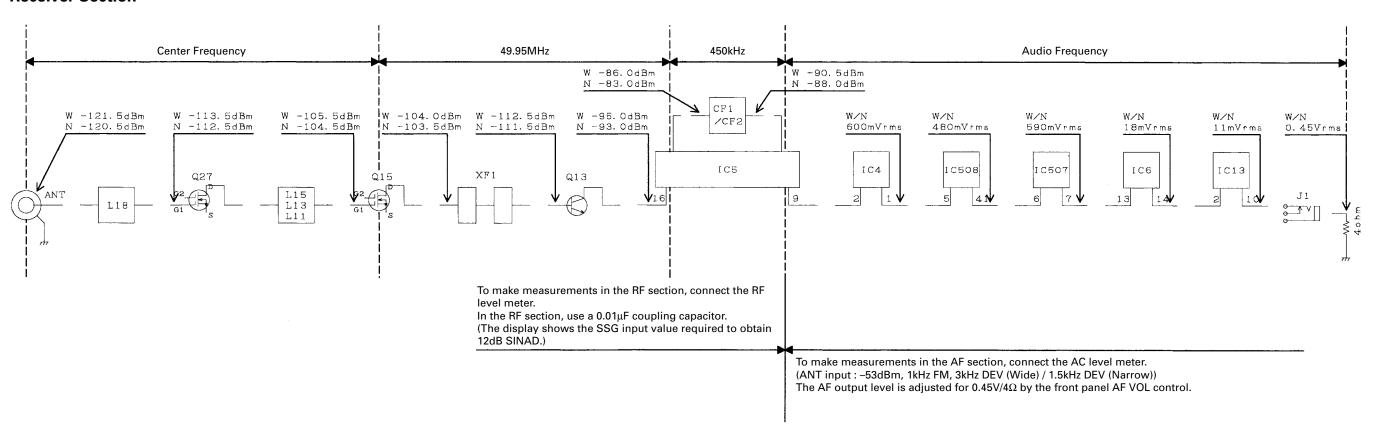


BLOCK DIAGRAM

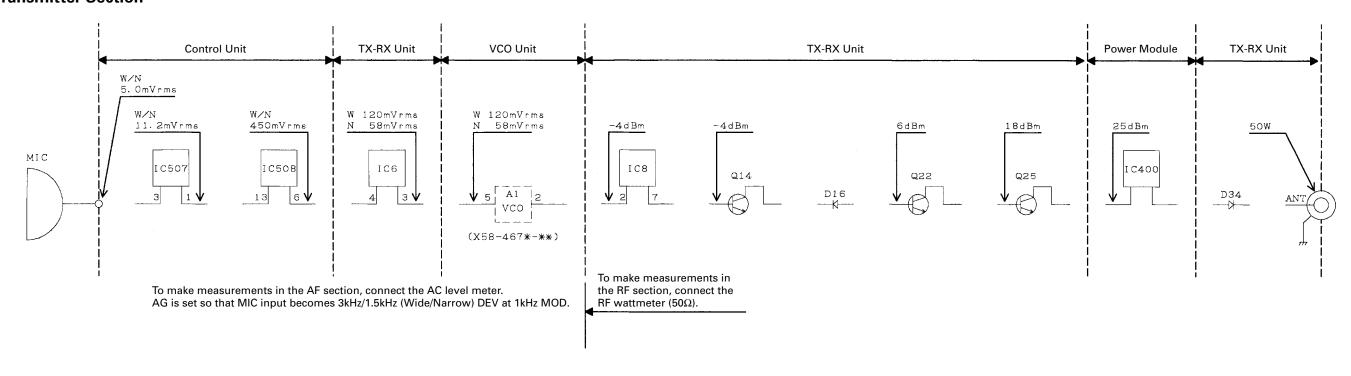


TK-760HG/762HG TK-760HG/762HG LEVEL DIAGRAM

Receiver Section



Transmitter Section



TERMINAL FUNCTION

CN1 (TX-RX Unit)

Pin No.	Name	Function
1	8C	DC 8V output.
2	5S	DC 5V output.
3	AUX5	SMRD : Reset output. *1
4	AUX6	5SC : 5S control (Cannot use). *1
5	NC	Non-connection
6	AUX3	SMCK : Clock pulse output. *1
		SQ : Squelch detect output. *2
7	AUX1	SMRQ : Ack Req input. *1
		PTT : External PTT input. *2
8	AUX4	TXD : Serial control data output. *1
9	AUX2	RXD : Serial control data input. *1
		DTC : Data channel control/External hook input.
		CHDATA : Channel control serial data input.
10	ALT	Alert tone input.
11	AFO	Receiver audio signal output.
12	AFI	Reseiver audio signal input.
13	MII	Transmit audio signal input.
14	MIO	Transmit audio signal output.
15	GND	Ground

CN2 (TX-RX Unit) \longleftrightarrow CN501 (Control Unit)

Pin No.	Name	Function
1	SFTDT	Serial data for IC9 (Shift register).
2	UL	Lock detect.
3	PLST	Strobe signal for IC3 (PLL IC).
4	PLDT	Serial data for IC3 (PLL IC).
5	PLCK	Clock pulse for IC3 (PLL IC).
6	RSSI	Receive signal strength indicator.
7	ASQ	Analog squelch.
8	TO	Transmit sub-tone signal output.
9	SFTST	Strobe signal for IC9 (Shift register).
10	DAST	Strobe signal for IC6 (Shift register).
11	CNTDT	Control serial data for IC6.
12	CNTCK	Control clock pulse for IC6.
13	W/N	Change signal of wide or narrow.
14	СТО	Received sub-tone signal.
15	DTMFIO	DTMF signal.
16	MO	Modulation signal.
17	AFO	Receiver audio signal.
18	SB	Switched B.
19	SB	Switched B.
20	PSW	Power switch.
21	AUX3	Optional unit control signal.
22	AUX1	Optional unit control signal.
23	AUX4	Optional unit control singal.
24	AUX2	Optional unit control signal.
25	EMG/TXS	Foot switch input signal.
26	8C	DC 8V.
27	MM	MIC mute.
28	MI	External MIC input signal.
29	OE	Output enable.
30	ALT	Alert tone signal.
31	DEO	Receiver detector output.
32	MII	Transmit audio signal input.
33	MIO	Transmit audio signal output.
34	GND	Grond.

CN3 (TX-RX Unit)

Pin No.	Name	Function			
1	HOR	Horn alert/call output.			
2	E	Ground.			
3	SB	Switched B+, DC 13.6V output, Maximum 1A.			

CN4 (TX-RX Unit)

Pin No.	Name	Function
1	DEO	Receiver detector output.
		Level : 0.5Vrms (Atandard modulation)
2	DTC	Data channel control/External hook input.
3	IGN	Ignition sense input.
4	DI	Data modulation input.
5	ME	External microphone ground.
6	MI	EXternal microphone input.
7	PTT	External PTT input, active low.
8	SQ	Squelch detect output.

CN5 (TX-RX Unit)

Pin No.	Name	Function
1	AM	Speaker mute input, active high.
2	MM	MIC mute input, active high
3	EMG/TXS	EMG : Foot switch input, active low. *3

CN7 (TX-RX Unit)

Pin No.	Name	Function
1	PA/LI	Relay for PA function KAP-1 control.
		"H" : PA/LI on, "L" : PA/LI off
2	SPO	Audio signal output to KAP-1
3	SPI	Audio signal inpt from KAP-1

CN8 (TX-RX Unit)

Pin No.	Name	Function
1	SP	Audio signal output to internal/external speaker.
2	Е	Ground

J501 (Control Unit)

Pin No.	Name	Function
1	MBL	MIC backlight control.
2	PSB	13.6V.
3	GND	Ground.
4	PTT/TXD	PTT.
5	ME	MIC ground.
6	MIC	MIC signal input.
7	HOOK/RXD	Hook detection
8	CM	MIC data detection.

CN101 (PLL/VCO) \longleftrightarrow TX-RX Unit

Pin No.	Name	Function
1	CV	Control voltage input.
2	MD	Modulation input.
3	8CL	8V input.
4	Е	Ground.
5	HT	Signal output.
6	RX (ST)	Switched transmit input. H: Transmit

*3 : Emergency mode

^{*1:} SmarTrunk OMNI mode

SPECIFICATIONS

GENERAL

Frequency Range K: 148 to 174MHz M: 146 to 174MHz

Number of Groups TK-760HG: Maximum 128 groups

Channel Spacing Wide: 25, 30kHz Narrow: 12.5, 15kHz

PLL Channel Stepping 2.5, 3.75, 5, 6.25, 7.5kHz

Operating Voltage 13.6V DC ±15%

Current Drain Less than 0.4A on standby

Less than 1.0A on receive

Less than 12.0A on transmit

Operating Temperature Range -30°C to +60°C (-22°F to +140°F)

Channel Frequency Spread K: 26MHz M: 28MHz

RECEIVER (Measurements made per EIA standard EIA/TIA-204-D)

 Spurious Responce
 90dB

 Audio Power Output
 4.0W

 Frequency Stability
 ±2.5ppm

TRANSMITTER (Measurements made per EIA standard EIA-152-C)

RF Power Output 50W

Modulation Wide: 16K0F3E Narrow: 11K0F3E

FM Noise Wide: 50dB Narrow: 45dB

Audio Distortion Less than 3% Frequency Stability ±2.5ppm

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